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CATALOGUE

OF THE

OHIO UNIVERSITY

ATHENS, OHIO.

FOR 1896-7.

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1897. *K*

Calendar for 1897-8.

FALL TERM begins September 14, and ends December 23.

HOLIDAY VACATION begins December 24, and ends January 3, 1898.

WINTER TERM “ January 4, “ March 18.

SPRING VACATION “ March 19, “ March 28.

SPRING TERM “ March 29, “ June 23.

COMMENCEMENT EXERCISES, 1898, June 19-23.

June 23, Commencement.

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Albert Douglas.....	Chillicothe..... 1897

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OHIO UNIVERSITY.

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General Information.

Ohio University.

ORIGIN OF THE UNIVERSITY.

The existence of the Ohio University was provided for as early as 1787, in the purchase made from the Government of the United States by the Ohio Company of Associates. By the contract between these two parties, two townships of land were set apart for the purpose of a University, and placed under the care of the Legislature of the State. The University was organized under an act of the Legislature passed in 1804. Its Trustees are appointed by State authority and the Governor of the State is *ex officio*, a member of the board.

LOCATION.

Athens, the seat of the University, is situated in the southeastern part of the State. It is easily accessible from the east and west by the Baltimore and Ohio South-western Railroad and its branches; from the central and northern portions of the State by the Columbus, Hocking Valley and Toledo, and Kanawha and Michigan Railways. By these routes it is about one hundred and sixty miles east from Cincinnati, and seventy-five miles southeast from Columbus.

The lover of natural scenery cannot fail to be charmed with its picturesque surroundings. The winding valley

of the Hockhocking and the wooded hills beyond, present a series of lovely views from the University, while the wide prospects, as seen at certain seasons from some of the neighboring summits, are seldom surpassed in quiet and varied beauty.

The University buildings are located in a beautiful campus. They occupy a slight elevation extending east and west across the grounds, fronting the north. Before them lies a park of about five acres containing a grove of fine forest trees and skirted along its northern limit by a row of magnificent elms. Beyond these sentinel trees extends a green sward sloping beautifully to the street. In front of the line at the northwest angle stands an elegant soldiers' monument. When this park is lighted up at night by electricity from the plant in the west wing, it presents a charming view. The remainder of the campus in the rear of the buildings is devoted to recreation.

BUILDINGS.

These are of brick and six in number. The central building was erected in 1817, and is the oldest college edifice northwest of the Ohio river. This venerable structure is dear to many by strong and tender associations, and to many more by the names of eminent men who have here studied and taught. It has been modernized and is admirably adapted to its uses for college work. The two wing buildings, once used for dormitories, have been transformed into recitation rooms and laboratories. The west building is heated by steam and its basement devoted to the uses of an electrical plant where excellent work is done in electrical engineering.

The chapel building was removed during the year to the rear of the central building in order to make room for the new administration building. On the first floor is a

beautiful chapel hall, now well crowded with students at the chapel hour. In the second story are two society rooms with a committee room attached to each. The basement furnishes ample and airy room for storage and furnaces. The entire structure, if ever so needed, will make an admirable library building.

The walls of the new administration building are rapidly rising, and it is expected that the structure will be completed by December, 1897. It will be one of the finest college buildings in southeastern Ohio. It is a T-shaped structure, four stories high including basement. It will measure 156 feet in length by 131 feet deep in the center. There will be an auditorium 60 by 60 feet, 30 feet in height, with a gallery, furnishing seating capacity for twelve hundred people. It will contain a president's office, nine recitation rooms with professors' offices attached, a trustees' and secretary's office, a large music hall, art rooms, rooms for piano practice, society rooms, and a gymnasium in the basement eighteen feet high with three thousand square feet of floor. It is modern in methods of heating and arrangement of detail, adapted to educational work.

LADIES HALL.

This is located nearly opposite the north entrance to the campus. It is a fine, commodious brick structure, heated by steam, where beautiful rooms are occupied by lady teachers and students. Excellent boarding is furnished, at a cost of \$4 per week. Ladies who prefer find suitable homes in the town.

LIBRARY AND READING ROOM.

In the study of Literature and History, the most important aid, in addition to a good teacher, is a large stock

of well selected books. In this respect the O. U. is liberally provided. The college and society libraries contain about 15,000 volumes, a large part of which are of recent purchase. In addition to the books of a general character, the private libraries of the professors, which contain works of a more special character to the number of several thousand, are also accessible to the students under certain limitations. The reading room furnishes access to the latest contributions to all topics under current discussion. Some of the larger works are not only useful for reference, but also for purposes of original investigation.

It is the special aim of the managers of the Library to acquire as rapidly as issued all the leading works bearing on Pedagogy whether in German, French or English. A large number of works on this topic and the history of education is already on hand. The Library is so managed as to be accessible every day. The reading room, in which are placed most of the reference books and all the periodicals, is accessible at all times. The reading of well chosen books not only tells the student what others have thought in every department of knowledge, but likewise stimulates him to think for himself. A good library is of itself a university.

APPARATUS AND CABINET.

The departments of Mathematics, Astronomy, Physics, Chemistry and Biology are well equipped with valuable apparatus, which is put at the personal disposal of the student. These subjects are illustrated upon the lecture table, but it is insisted upon that a student really enters upon possession of his knowledge only when he has acquired skill in carrying on laboratory experiments by himself under the supervision of the professor.

The large Biological Laboratory has been fitted up with appliances suitable for pursuing extensive courses of study in the various departments of Biology, the selections being made with a view to furnishing each student with such apparatus, reagents, etc., as are necessary for independent work. To this end, over twenty microscopes have been provided and many duplicates of other appliances are at hand. Excellent histological apparatus is in use for freezing and sectioning, and the laboratory is also well equipped for embryological and bacteriological work.

In the department of Physics, besides balances, specific gravity apparatus, pulleys, centrifugal devices, pumps, barometers, manometers, pendulums, and a great deal of other apparatus for the demonstration of the principles and laws of mechanics, etc., there are: a set of mounted tuning forks for bows, a complete set of electromagnetic forks of various pitches, sonometer, siren, pipes, etc., for work in sound; lenses, prisms, mirrors, polariscopes, spectroscope, spectrometer, diffraction gratings, projecting lantern, cameras, etc., for light; radiometers, thermometers, calorimeters and other apparatus for heat; and a very good equipment of dynamos, motors, calibrating and measuring instruments, resistances, galvanometers, condensers, magnetometers, induction coils, batteries. Wheatstone bridges, various forms of reversing switches and keys, electrometers, standard cells, electrodynamos and a great deal of other apparatus suited to the general demonstration of the subject of electricity and magnetism, and to the requirements of the electrical course outlined elsewhere in this catalogue.

The chemical laboratory is equipped for work by the students in general chemistry, qualitative and quantitative analysis, and organic chemistry. The work tables for students are supplied with water and gas. Hoods are

provided for experiments upon the noxious gases. A still is set up for the continuous production of distilled water. The apparatus required by the student for the laboratory work is loaned to him and payment required at the end of the term, only for what is missing or has been broken.

A fine set of surveying instruments of the most approved kind has recently been purchased for the students in field work. The cabinet affords important aid in the study of Mineralogy and Geology. But we are greatly in need of further contributions thereto, and to this end the assistance of the friends of the institution is greatly desired and earnestly solicited.

MAPS AND CHARTS.

An excellent set of maps, chiefly those of Kiepert, intended to illustrate the physical features and political changes of the historical countries of Europe and the East has lately been added to the equipment of the institution. These in addition to those already on hand, afford an important and well-nigh indispensable aid to the study of history and geography. The outfit in this regard is believed to be unusually complete.

ADMISSION AND DISCIPLINE.

Entering the University will be considered a pledge to obey its rules and regulations. These are few and simple, appealing to the student's self-respect and sense of personal responsibility. Persons of known bad character or of lazy habits are not wanted and will not be retained unless they show a decided desire to reform. Students from other colleges must present certificates of honorable dismissal.

Candidates for advanced standing are, in all cases, ex-

amined to ascertain their thoroughness and proficiency; but certificates from other institutions will be accepted for the amount of work done in the different departments.

In exceptional cases students are admitted to classes for a week on trial, without examination, provided the professors in charge are reasonably certain that they can maintain their standing.

Ladies are admitted to all departments of the University on the same terms and under the same conditions as those prescribed for young men.

A record is made of the daily work of each student. When the standing of the student, as shown by this record, and examination falls below an average grade of 70 per cent., he must review the study. A record is also kept of each student's department. A low standing of either record is followed by private admonition, and notice is given to the parent or guardian.

Whenever the conduct of a student is such as to indicate that he is unfit to be a member of the University, either because of immorality or because of habitual neglect of his college duties, he will be dismissed. But, in the latter case, his parents will first be requested to withdraw him, and if not withdrawn within a reasonable time, he will be dismissed.

Stress is laid upon the fact that no young man or woman need hesitate to enter the Ohio University for lack of means, or because of inadequate preparation. The surest guaranty of success is an honest and determined effort to succeed. If the student has learned nothing more during the years spent in college than how to study, and how to investigate any subject of which he takes hold, no matter how meager his knowledge may be at the start, he will be able to enlarge it with astonishing rapidity. His time thus spent, whether it be measured by terms or

years, will have been wisely employed. Our age is sadly in need of men and women who have such a preparatory training for life's duties.

RELIGIOUS INFLUENCE.

Students are required to be present at prayers in the chapel every morning, unless excused by the Faculty, and to attend public worship on the Sabbath; but the choice of the place of attendance is left with the student or his parents. A students' prayer meeting is held once a week, at which attendance is optional. The University is not sectarian, and no effort is made to inculcate the doctrines of any particular creed or denomination; but the utmost care is taken to promote sound and healthy religious sentiments. We feel sure that nowhere do these matters receive more careful attention.

The founder of the Ohio University believed that "religion, morality and knowledge are necessary to good government and the happiness of mankind;" and it has been the steady purpose of those to whom has been entrusted the duty of carrying out his plans to insist on the intimate relation existing between the three. The good man, the good citizen is not he who is best informed, but he who is constantly inspired with the thought that his knowledge should be used for the good of his fellow-men. Knowledge without virtue is a curse and not a blessing. It is the constant policy of both Trustees and Faculty to inspire students with the love of knowledge, and with desire to practice religion and morality. Accordingly only those persons are invited to profit by the means of instruction here placed within their reach, who are willing to conform their conduct as far as possible to the teachings of the Bible. We expect students who have spent some time with us to depart not only wiser but also

better than they came. If such is not the case it will not be for want of care on the part of the Faculty.

YOUNG PEOPLE'S CHRISTIAN ASSOCIATIONS.

Both the Y. M. C. A. and the Y. W. C. A. have flourishing organizations connected with the Ohio University, and a large proportion of the students are members of one or the other. These hold meetings weekly or oftener, provide lectures on religious or Biblical topics, and take an active interest in promoting the spiritual, moral and intellectual welfare of the entire student body. The management of the University is in hearty sympathy with these organizations and does all that is possible to aid them in their work. The Y. M. C. A. especially, is one of the most vigorous among the colleges of the state.

FEES.

There is no charge for tuition in any of the regular preparatory or collegiate classes. But all students pay a registration fee of three dollars per term. Besides this, instruction in the following branches is to be regarded as extra and must be paid for as follows :

Piano lessons or voice culture, per term, two lessons per week.....	\$10.00
Use of piano one hour per day, per term.....	3.00
Bookkeeping and allied branches per term.....	5.00
Stenography and typewriting.....	5.00

The regular fee in chemistry and electrical engineering is one dollar per term to cover the cost of materials used. To this should be added a small charge for breakage—to careful students usually not more than a few cents. After the second term in chemistry the regular fee is two dollars per term.

Those students who wish to pursue studies privately in the collegiate departments for which they desire to have credit toward the attainment of a degree will be required to pass an examination on each branch, and for this examination an extra fee of \$5 will be charged, which may, however, be remitted by a vote of the faculty.

All fees must be paid within the first thirty days of the term. No exception can be made to this regulation. The registration fee must be paid when the student enters.

EXPENSES.

Board can be obtained within a reasonable distance of the University at \$2.75 per week. By forming clubs, students may board at \$1.75 per week. Those students whose circumstances require it, are allowed to board themselves, by which means their expenses may be still further reduced; but this plan is not recommended, because liable to be prejudicial to health.

The actual cost of an education at the University will depend very much upon the disposition and habits of the students. The necessary cost is very low—as low as at any institution affording equal advantages. It is earnestly recommended to parents not to furnish their sons or daughters with extravagant means. The scholarship and character of a student are often injured by a free indulgence in the use of money. Whatever is beyond a reasonable supply exposes him to numerous temptations and endangers his success and respectability.

As persons frequently wish to know as near as may be, the cost of a student for one year at the Ohio University, the following estimates are here given :

LOWEST.		HIGHEST.	
Registration fee.....	\$9.00	Registration fee.....	\$9.00
Board in clubs.....	70.00	Board in private family...	150.00
Room	30.00	Room	40.00
Books.....	11.00	Books.....	20.00
	<u>\$120.00</u>		<u>\$219.00</u>

This estimate is for three terms or forty weeks, and includes all necessary expenses except washing, and a small fee for membership in the literary societies. The additional charges for students who take electives in chemistry and for the special class in electricity are elsewhere noted.

METHODS OF INSTRUCTION.

Instruction is given both by recitation and lectures. The constant aim in both is to awaken interest in study, to aid in the acquisition of knowledge, and to develop the powers of thought and communication.

Some subjects can be better treated in lectures than others. The knowledge the student has of a subject is likewise a factor that is taken into account. The lecture method is generally better adapted to advanced students than to those who are still in the elements. After the elementary principles have been thoroughly mastered from the text-book, supplemented with such elucidations as seemed to be called for, the student is generally prepared to profit by the lectures of the teacher, and to grasp the wider outlook that is the result of a knowledge of a subject rather than of the contents of any single book, or even of several books. In the observational studies the learner is, as far as possible, brought face to face with the objects themselves under consideration. The classes in Botany and Geology make excursions into the sur-

rounding country for the purpose of collecting specimens and deriving scientific knowledge from original sources. The classes in Surveying and Mensuration have practice in the use of instruments in field work.

COURSES OF STUDY.

Such courses of study have been adopted as experience has proved to be best adapted to the purpose of liberal education. The classical course, in fullness and matter, will compare favorably with that of the best institutions. The philosophical course is so arranged as to meet the wants of those who may prefer to study modern languages and English branches instead of Greek, for which French, German and English are substituted. In the scientific, prominence is given to mathematics and the physical sciences.

The pedagogical course is intended to fit young people for the profession of teaching. A fuller statement of its aims and methods will be found in another part of this catalogue.

Those who are able to attend for a short time only, may take a select course, provided the studies they wish to pursue are such as they are qualified to enter upon with advantage. But no student will take a study to which he has not been assigned, or discontinue a study, without permission obtained from the Faculty.

ELECTIVES.

Each student in a regular course will be required to take at least fifteen class exercises per week, and no student will be permitted to take more than seventeen, except on permission of the Faculty. This permission will be given only on the written request of the student. Students in any one of the courses can select subjects in

any one of the others below the class to which they are assigned, but not above, except on approval of the Faculty, who must be convinced that they have had sufficient preliminary training to pursue the elected study with advantage. As will be seen, about half the subjects after the Freshman year are elective. But in addition to these a large number of others are offered for the benefit of those persons who wish to specialize still further along particular lines. It needs to be noted however, that they are not offered unconditionally. Regard will be had to the time at the disposal of the teachers and to the number of students taking any particular elective, as well as to their preliminary training. In all cases where a student's knowledge of English is defective he must pursue this branch until his deficiencies are made up.

During the past few years a number of students, both undergraduate and post graduate, have pursued advanced studies on special lines. With the recent increase in the number of the Faculty a large number of students can be accommodated and in a larger number of branches.

HONOR COURSES.

The Faculty have established a series of honor courses to which students will be admitted on the following conditions: The applicant must have completed the work of the Sophomore year or its equivalent; he must show more than average capacity for the studies he wishes to pursue; he must be able to speak and write the English language correctly and with ease. The studies that constitute these courses are a good deal more difficult than the regular work of the last two years. Some of them are given in this catalogue.

DEGREES.

The Bachelor's degree is conferred upon students who have completed any one of the four courses laid down in another part of this catalogue. The fee for diploma is five dollars.

The Master's degree will be conferred upon graduates of this or any other college who give evidence to the Faculty that they possess such literary and scientific attainment as will make them worthy recipients of it, without reference to the time elapsed since graduation. The fee for this degree is ten dollars.

No degree will be conferred until all dues are paid.

The degree of Doctor of Philosophy will be awarded only to students who have done past-graduate work in residence.

SCHOLARSHIPS.

At their meeting in 1892 the trustees established ten scholarships, having a cash value of one hundred dollars each. These scholarships will be awarded by the faculty to graduate students of this or any other college whose previous studies have qualified them to profit by the advantages they afford. Their object is to encourage special study within comparatively narrow and well defined limits. In most cases the recipients will be required to teach one hour per day. These, so far as at present determined, are as follows:

1, Biology. 2, Chemistry. 3, Educational History. 4, English Literature. 5, Latin and Roman History. 6, Greek. 7, Philosophy. 8, Psychology. 9, Mathematics. 10, Physics. Candidates who intend to make application for any of these scholarships are requested to correspond with the members of the Faculty in whose department the subjects belong.

THE EMERSON PRIZE POEM FUND.

The late W. D. Emerson, of the class of '33, bequeathed to the trustees of the university the sum of one thousand dollars, the interest of which is to be awarded every second year to the student or graduate of the institution who shall write the best original poem. As at present invested it yields an annual revenue of \$65. The first award was made in 1893 to Miss Carrie Schwefel. The second award under the bequest was made in 1895. The prize was divided between Miss Esther Burns and Mr. John H. Atkinson. The judges were Mrs. Annie Fields of Boston, Mr. Maurice Thompson of Crawfordsville, Indiana, and Mr. E. C. Stedman of New York city. The thanks of the university authorities are due and are herewith tendered to these distinguished writers for the care with which they examined the verses submitted to them as well as for the interest they took in the competition. The judges this year are R. H. Stoddard, Clinton Scollard, and W. D. Howells.

LITERARY SOCIETIES.

There are three literary societies in the university—the Athenian, the Philomathean and the Adelpia—the last being composed exclusively of ladies. The members have opportunity to exercise themselves in declamation, composition and debate, and to become familiar with the modes of conducting business in deliberative assemblies. The work of these societies forms a valuable part of college training, and all students are strongly urged to join one of them.

Detailed Statement

OF THE

Departments of Instruction.

GREEK.

PROFESSOR SUPER.

ASSOCIATE PROFESSOR DUNKLE.

It is the aim of this department not only to teach students to read the authors commonly read in colleges, but also to make them acquainted as far as possible with the literature and life of the ancient Greeks. In teaching the language, especially that of Homer, constant attention is called to the words related to other languages, particularly Latin, German and English; and the laws of consonantal mutation are explained. Especial prominence is given, as the student progresses, to the following points: First, form; second, vocabulary; third, relation to cognate languages; fourth, literature and history. The ear is regarded as equally important with the eye in the interpretation of words. When possible, some entire work of an author is read, as it is thought a more lasting and more satisfactory impression will thus be made upon the mind of the student than by the use of selections only.

It is a well established principle in the study and teaching of the ancient languages that they should be made, as far as possible, the bases of a study of antique life. The Creek language embodies the experience of the most remarkable people of antiquity—a people whose achievements in literature, in the arts, and in government have been, and doubtless will continue to be, inexhaustible sources of profitable instruction. It is here claimed that a study of the Greek language, together with all that should properly be taken in connection therewith, will contribute the most important element of a liberal education.

Before admission to the college class in this department, the student must be fairly familiar with the Greek Grammar and have read three books of *Anabasis* and three books of Homer's *Iliad*.

The Freshmen read about seventy-five pages of Herodotus in Goodwin's Greek Reader; nearly the same number of pages in Winans' edition of Xenophon's *Memorabilia*; and the *Apology* and *Krito* of Plato entire. The work for the Sophomore year is usually a tragedy, a comedy and Demosthenes' *De Corona*. During the present year the class read the *Antigone* of Sophocles, five books of the *Odyssey*, eight orations of Lysias, and Smith's *History of Greece*. More important, however, than the amount of text perfunctorily read, is a knowledge of the Greek language and a true conception of the life of Greek antiquity.

Works of reference: Hadley's and Goodwin's Greek Grammars, Goodwin's Greek Moods and Tenses, Liddell & Scott's Greek Lexicon, Anthon's and Smith's Classical dictionaries, Autenrieth's Homeric Dictionary, Ginu & Heath's Classical Atlas.

ELECTIVES.—Students who wish to pursue the study of Greek beyond the regular course can be accommodated with three exercises per week for three terms, the subjects to be studied, or the authors to be read, to be selected by the professor. The following is the general program: As the freshman year is devoted to a review of the Syntax, the Accidence of the Greek language in general, the student is prepared to take up the study of masterpieces, either in oratory, philosophy or poetry, with special reference to the characteristics of each. With these ends in view, one or more terms may be given to one or more of the Attic orators, to one longer and two shorter Platonic dialogues, or to some of the principal dramas. One elective term in Greek History is offered, and one in Comparative Philology.

LATIN.

PROFESSOR EVANS.

ASSISTANT PROFESSOR CONAWAY.

To enter the Freshman class, students are examined on four books of Caesar, seven orations of Cicero, and six books of Virgil's *Æneid*.

Romæ Viri Illustres, Sallust's *Catiline*, and selections from Ovid may be substituted for parts of the other authors.

During the first part of the Freshman year attention is directed to Latin Rhetoric as exemplified in the works of Cicero and Livy. During the latter part of the year, the class reads the Odes of Horace and studies Roman History. Throughout the whole year there are frequent exercises in sight reading and in turning into the original, English renderings of Cæsar, Eutropius, and Nepos.

In the whole work the endeavor is to impress on the minds of the students, that Latin is the language of a moral and practical people who left their mark on the world in law and government, and that "Rome is the center of our studies and the goal of our thoughts; the point to which all paths lead, and from which all paths start again."

Hand-books: Allen and Greenough's or Harkness, Grammar; Allen's Roman History; Harper's Lexicon, Kiepert's wall maps of the Roman Empire and of various countries, Ginn and Co.'s Classical Atlases, Gow's "Companion," Smith's Dictionary of Classical Biography, and Smith's and Seyfert's (Nettleship and Sandy) Dictionaries are freely accessible to students for reference in their work.

ELECTIVES: Each year one of the following courses is offered to students who desire to continue the study of the Roman people, beyond the course that is required.

1. *Latin:*

Terence, Cicero, Lucretius, Horace, Juvenal, Tacitus, Paterculus, and Quintilian are studied according to the tendency or the choice of the class.

The students have access also to Simcox's, Teuffel-Schwabe's, (Warr's translation), and Browne's Histories of Latin Literature, and to Guhl and Koner's Life of the Greeks and Romans.

2. *Roman History.*

A whole year is given to the study of the military and political history of Rome, special attention being directed to the causes of the struggles between the Patricians and Plebeians, and between Rome and Carthage; and to those which made Rome the conqueror of the world, as well as those causes which led to the decline of the Republic.

Books for study and reference: Epochs of Ancient History; Lanciani's Ancient Rome in the Light of Recent Excavations; The Great Captains—Hannibal—by Dodge; Duruy's and Mommsen's Histories of Rome, Long's Decline of the Roman Republic, and Labberton's Historical Atlas.

3. *The Roman Constitution and Outlines of Roman Law:*

This course is of interest to students who look forward to the study of law, as a study of Roman law helps one to get a clear idea of the fundamental conceptions of Jurisprudence. The study of the development of the Roman constitution and laws will help to understand how all constitutions and laws grow. In the last two courses described, students are required to consult Roman authors in addition to the authors already mentioned.

When students desire it, classes are organized to study the Vulgate Version of the Scriptures, Latin Hymns of the church, the writings of the Latin writers of church history, and other works in Patristic Latin.

HONOR COURSE.

FIRST YEAR.

Cicero: De Senectute and De Amicitia, De Officiis, Book III, and the second oration in Antonium. Sallust: Catiline, The Jugurthine War. Livy: Books I and II. Horace: the Odes, Books I to IV, and Carmen Sæculare. Sight Translations from Nepos, Eutropius, Ovid and Virgil, together with Latin Prose Composition. History of Rome: *Thne*, Early Rome; *Smith*, Rome and Carthage. History of Roman Literature: Teuffel, in part. Mythology and Life of the Romans: Selections from Murray's Manual and from Guhl and Koner. Grammar: Thacher's Madvig.

SECOND YEAR.

Paterculus: Book II. Livy: Books XXI to XXIII. Tacitus: The Annals, Book II. Horace: the Epistles, Books II and III. Terence: The Adelphi. Lucretius: Book IV. Juvenal: Satires I and V. Plautus: Aulularia. Cicero: Brutus, the Orations Pro Murena, and Pro M. Cælio. Pliny the Younger: Select Letters. Quintilian: Book X. English Renderings of Livy, Cæsar and Nepos turned into Latin. Sight Translations of Suetonius, Phædrus, Curtius Rufus and Persius. History of Rome: three chapters in Vol. I of Long's Decline of the Republic; The Gracchi, Marius and Sulla in the Epoch Series; chapters in Duruy's History of Rome. History of Roman Literature: Teuffel continued and Simcox, Vol. II, in part. Philology: Henry's Short Comparative Grammar and Roby, Vol. I.

MATHEMATICS AND ASTRONOMY.

PROFESSOR HOOVER, ASSISTED BY ONE OR MORE TUTORS.

The course in pure Mathematics embraces nine terms, distributed as follows: Algebra, three terms; Geometry, two terms; Trigonometry and Surveying, two terms; Analytic Geometry, one term; Calculus, one term. Of these, three terms, including Algebra to Series and Plane Geometry, are required for admission into the Freshman class; the remaining six terms are included in the College Department, covering the Freshman and Sophomore years.

See also courses of study and electives.

In teaching the pure mathematics, especial attention is directed to the value of the study as a means of training the logical faculties. Constant stress is laid upon the steps of reasoning which underlie the various processes;

and it is insisted that the principal business of the college student of mathematics is to apprehend these clearly.

Power to apply the principles is tested by a wide range of exercises drawn from various sources, and adapted to the capacity of the student.

A part of the Spring term in the Freshman year is devoted to the subject of land surveying and to other applications of Trigonometry. This work is important as giving good examples of the utility of mathematical science in its practical applications. The department is in possession of an excellent set of surveying instruments, including a transit, level, rod, and other necessary appurtenances. These are in frequent use by the students.

ELECTIVES. In this department the following electives are offered: Differential Equations, Statics and Dynamics; Elliptic Functions; Spherical Harmonics; Quaternions; Determinants; Mathematical Optics; Least Squares, and Astronomy.

HONOR COURSE.

JUNIOR YEAR.

First Term. Advanced Differential and Integral Calculus, fifteen hours per week.

Second Term. Differential Equations, twenty hours per week.

Third Term. Advanced Analytical Mechanics, twenty hours per week; or Modern Analytical Geometry, including Trilinears, etc., with solid Geometry, twenty hours per week.

SENIOR YEAR.

First Term. Spherical Astronomy with Least Squares, twenty hours per week.

Second Term. Same continued, and Theoretical Astronomy begun, twenty hours per week.

Third Term. Elliptic Functions, twenty hours per week.

The student must have a reading knowledge of one of the Modern Languages before he enters on this course. For the work of this year there may be substituted studies in Mathematical Physics, including Electricity and Magnetism, Optics, Heat and Sound, all preceded by Least Squares.

RHETORIC AND ENGLISH LITERATURE.

PROFESSOR BOUGHTON.

INSTRUCTOR, MR. SCHOFIELD.

The work of this department is intended to accomplish two objects: first, to cultivate the art of expression; second, to give the student a practical knowledge of English and American authors.

Preparatory to college English, the student must have completed the following studies or an equivalent:

1. *Grammar*: Reed and Kellogg's Higher Lessons in English.

2. *Literature*: The books prescribed by the New England Committee of Ten for 1897, viz.: Irving's Tales of a Traveler, George Eliot's Silas Marner, Scott's Marmion, Defoe's History of the Plague in London, Macaulay's Essay on Johnson, Shakespeare's As You Like It and Merchant of Venice, Burke's Conciliation with American Colonies, Webster's First Bunker Hill Oration, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas.

3. *Rhetoric*: (1) Waddy's Elements of Composition and Rhetoric. (2) Genung's Practical Rhetoric.

THE AMOUNT OF COLLEGE ENGLISH REQUIRED FOR
GRADUATION.

For the B. S. degree, 65 hours' credit.

For the A. B. or B. Ph. degrees, 130 hours' credit.

For the B. Ped. degree, 195 hours' credit.

COLLEGE ENGLISH, 1897-8.

FIRST TERM.

1. *Keats*: A study of Keat's Poetry with Parson's English Versification. Two recitations per week.

2. *Shakspeare*: Merchant of Venice, Richard III, Macbeth, Julius Cæsar, King John, King Lear, and Othello; Moulton's Shakespeare as a Dramatic Artist, pp. 43-245. Three recitations per week.

3. *College Rhetoric*: A Study of Style; Essays of Spencer, Earle, Pater, Stevenson, Mathews, and Hunt; Lewes' Principles of Success in Literature. Three recitations per week.

4. *Literature*: The Age of Elizabeth—Saintsbury's History of Elizabethan Literature; Readings from the principal authors; Essays and Discussions. Three recitations per week.

5. *Browning*: A Study of complete Poems and Dramas. Three recitations per week.

SECOND TERM.

6. *Mrs. Browning*: A Study of Mrs. Browning's Poetry with Parson's English Versification. Two recitations per week.

7. *Shakspeare*: The Tempest, As You Like It, Love's Labour Lost, Henry VIIIth, and Twelfth Night; Moul-

ton's Shakespeare as a Dramatic Artist, pp. 245-300. Three recitations per week.

8. *College Rhetoric*: A Study of Poetry with exercises in Metrical Composition. Three recitations per week.

9. *Literature*: XVIIIth Century Authors; Gosse's Eighteenth Century Literature; Essays and Discussions. Three recitations per week.

10. *Sherman's Analytics of Literature*. Three recitations per week.

THIRD TERM.

11. *Tennyson*: A Study of Tennyson's Poetry with Parsons' English Versification. Two recitations per week.

12. *College Rhetoric*: A Study of Criticism; Moulton's Inductive Criticism Applied to the Novel. Three recitations per week.

13. *Oratory*: The Preparation of some Oration, Essay, or Debate for some Contest. This course is open only to students who have had at least two courses in English or an equivalent. Five recitations per week.

14. *Literature*: XIXth Century Authors; Saintsbury's XIXth Century Literature; Essays and Discussions. Three recitations per week.

15. *Chaucer*: A Study of Chaucer's Poetry. Two recitations per week.

HONOR COURSE.

Courses 1, 2, 3, 6, 7, 8, 11, and 12 are preparatory to this Honor Course. The special work required for a degree is as follows:

JUNIOR YEAR.

First Term: Course 4 above; Tyler's History of American Literature; Stedman's Poets of America; A Study of Nathaniel Hawthorne and his Contemporaries.

Second Term : Course 9 above ; McCarthy's History of Our Own Times ; Stedman's Victorian Poets ; A Study of Charles Dickens and contemporary Novelists.

Third Term : Course No. 14 above ; Lecky's England in the XVIIth Century, chapters 1-4, 8 (78 pages), 9, 15, 18, 19, 20 and 23 ; a Study of Richardson and contemporary Novelists ; Essay on the English Novel.

SENIOR YEAR.

First Term : Course No. 5 above ; Green's History of the English People, two vols. ; Brooke's History of Early English Literature ; A Study of Dramatic Poetry, Elizabethan Period.

Second Term : Course No. 10 above ; Green's History of the English People, last two vols. ; A Study of Pope and contemporary Poets.

Third Term : Mrs. Oliphant's Literary History of England in the end of the Eighteenth and beginning of the Nineteenth Centuries ; three vols. ; Carlyle's French Revolution ; a Study of Wordsworth and contemporary Poets ; A Thesis.

POST-GRADUATE ENGLISH.

The Honor Course is recommended for those who were not Honor Students. If any of the Honor Students should continue work after graduation, satisfactory courses will be planned for them.

BIOLOGY AND GEOLOGY.

PROFESSOR CHAPIN, WITH ONE OR MORE ASSISTANTS.

This department embraces all the subjects properly belonging to Biology, together with Inorganic and Organic Geology.

The work in Zoölogy begins with the second year of the preparatory course, and the subject being assigned to the fall term, abundant opportunity is offered for field work. In addition to the material gathered by the members of the class, use is made of preserved marine types which are received from time to time for the purpose of dissection. Each student is required, also, to spend some time in the Zoölogical Museum, which contains many valuable specimens.

The student enters the laboratory at the very start, and such types are placed before him for examination and dissection as will lead him, step by step, to correct habits of observation, by which he is enabled to comprehend the close relations of one form of life to another. As this work is in progress, the subjects under examination are freely discussed, and, on the completion of each dissection the student is examined upon the work done. Drawings are required of the different parts and organs, in all cases. After a few types have been studied in the laboratory, the subject of classification receives careful attention, according to the plan followed in Chapin & Rettger's *Elementary Zoölogy and Laboratory Guide*. An advanced course in Zoölogy is offered in the college proper, and a scholarship has been established which insures free tuition and laboratory privileges at the Marine Biological Laboratory, Cold Spring Harbor, Long Island, to the student in this department doing the highest grade of work. The importance of the advantages thus secured cannot be overestimated, as the student is given abundant opportunity to study marine life amidst its proper environment. He will, to this end, be expected to assist frequently in dredging, for which a naphtha launch is provided.

The course in Preparatory Physiology aims to give a good general knowledge of Anatomy and Hygiene, and the functions of the different organs. Occasional dissections are performed before the class, and some laboratory work is required of all. In the collegiate course this subject is studied by more advanced methods. Osteology receives close attention, and each student is expected to give some attention to dissection, besides making a practical study of a few histological structures. Physiological principles and theories are discussed according to the latest investigations, and, in this connection, experiments are performed in the laboratory. The department is supplied with a valuable skeleton and superb French anatomical models. (For more advanced work in Anatomy and Physiology, see Preparatory Medical Course.)

Elementary Botany is required in the Preparatory Pedagogical Course only, though many from the collegiate courses pursue this study. Work begins with an observational study of germinating plantlets, all students being required to sow the seeds of several representative plants and to make careful drawings of the different stages of growth. Leaves, roots and stems are studied from the objects as far as practicable, and careful dissection of certain typical flowers precedes the regular work of Systematic Botany. As time permits, the student is given some insight into the microscopic structure of plants by practical work in the laboratory. An herbarium of not less than forty plants will be required of all, or an equivalent in laboratory work. In the collegiate course the student is set to work at once with the microscope, the object being to secure a knowledge from actual observation of the general anatomy and physiology of plants. This is followed by work upon the Cryptogams, and all

will be encouraged to make some special investigations for themselves.

The University is thoroughly equipped for work in General Biology, a required subject in all the collegiate courses. A biological laboratory has recently been completed and fitted up with modern apparatus, including a steam sterilizer, fine optical appliances, dissecting instruments, water bath, paraffin bath, CO² freezer, etc. The student is given practical training in Microscopy, and is taught the process of staining and how to prepare permanent mountings. It is the intention to give a thorough knowledge of the structure and mode of growth of typical plant and animal forms, and the laboratory work is accompanied with lectures, in which the composition of organisms, methods of reproduction, development and other biological subjects are discussed.

At an early stage of the work in Geology, such objective study of minerals is pursued as will enable the student to comprehend the composition of rocks, which is next taken up. To supplement the text, lectures may be given from time to time upon dynamical, structural and paleontological Geology, and these subjects are further studied in the field. Work is also offered in determinative Mineralogy. A large cabinet of minerals is open at all times to the student of Geology.

Works of reference: Bessey's Botany, Goodale's Physiological Botany, Gray's Structural Botany, Wolle's Diatomaceæ of N. A., and Desmids of the U. S., Strasburger's Manual of Vegetable Histology, Goebel's Outlines of Classification and Special Morphology, Vine's Physiology of Plants, DeBary's Comparative Anatomy of Phanerogams and Ferns, Huxley and Martin's Biology, Sedgwick and Wilson's Biology, Claus and Sedgwick's Zoology, Packard's Zoology, Hertwig's General Princi-

ples of Zoology, Lang's Vergleichenden Anatomie der Wirbellosen Thiere, Landois's Physiology, Foster's Physiology, Stirling's Histology, Piersol's Histology, Shafer's Essentials of Histology, Carpenter's The Microscope, Frey's Microscopical Technology, LeConte's Elements of Geology, Dana's Manual, Dana's Mineralogy, Crosby's Mineralogy, Lyell's Principles of Geology, Geikie's Text Book of Geology, and Government Reports.

PREPARATORY MEDICAL COURSE.

It is desirable in many cases that students looking forward to the medical profession should, after spending four years in collegiate work, be admitted to advanced standing in the medical schools, whereby a year's time may be gained. With this object in view, the department of Biology now offers such work as is, in conjunction with Physics and Chemistry, recognized by the best of these schools the full equivalent of a year's professional study. The departments of Physics and Chemistry furnish abundant opportunities for the work required in that direction. The biological work is, from the very outset, suited to the needs of the medical student. To this end, it properly begins with General Biology, to be followed by a comparative study of animal forms and of phanerogamic and cryptogamic plants. The development of some vertebrate is closely studied, and preparations of embryos are required of each student. Throughout the course, close attention to laboratory work is insisted upon. Practical instruction is given in the preparation of microscopic objects, and the student is taught the technique of section cutting and mounting. A practical knowledge of Human Anatomy is obtained from the careful dissection of some mammal, the many resemblances to the anatomy

of man, and the few differences, being continually referred to. Arrangements have been made whereby students of the University are allowed, under certain conditions, to attend post-mortem examinations and to assist in the work. The laboratory is provided with modern apparatus for accurate investigation of disease germs, and the student is therefore required to do practical work in the all-important subject of Bacteriology.

Upon the completion of this course, the student may receive credit for one year's work in the regular course of study at the Medical College of Ohio, Starling Medical College, Columbus, and other medical schools; and graduates pursuing certain prescribed courses in this department will be admitted into the second year of the four years' course of study in the Medical Department of the University of Pennsylvania and Jefferson Medical College, upon presentation of a certificate signed by the professor in charge.

Among the works of reference to be found in the library may be mentioned Gray's Anatomy, Quain's Anatomy, Holden's Anatomy, Landois and Sterling's Physiology, Foster's Physiology, Foster and Langley's Practical Physiology, Foster and Langley's Embryology, Hertwig-Mark's Text-book of Embryology, Lehrbuch der Vergleichenden Entwicklungsgeschichte (Korschelt & Heider), Minot's Human Embryology, Wilder and Gage's Anatomical Technology, Wiedersheim's Comparative Anatomy, Sternberg's Bacteriology and standard tests and guides in Histology. The following subjects are comprehended in this course: General Biology, Zoology, Mammalian Anatomy, Human Anatomy, Histology, Physiology, Structural and Systematic Botany, Vegetable Histology, Embryology and Bacteriology.

HONOR COURSE.

JUNIOR YEAR.

Fall Term.—Advanced Zoology (8), Vegetable Histology (8), Chemistry (4).

Winter Term.—Advanced Zoology (8), Animal Histology (8), Analytical Chemistry (4).

Spring Term.—Vegetable Physiology (8), Vertebrate Embryology (8), Organic Chemistry (4).

SENIOR YEAR.

Fall Term.—Cryptogamic Botany (7), Neurology (9), Physics (4).

Winter Term.—Mammalian Anatomy (9), Neurology (7), Physics (4).

Spring Term.—Original Work (9), History of Development of Organic Forms (4), Advanced Biology (5).

A term's work in Elementary's Physics must be pursued before entering upon this course, and the student must have acquired a reading knowledge of German or French by the beginning of the second year.

PEDAGOGICS.

It is the aim of this department to prepare students for the profession of teaching. Such preparation requires (1) a vivid conception of the true end of education; (2) a knowledge of, and a practical acquaintance with, the right methods to be used in attaining that end; (3) a knowledge of the principles upon which those methods are based; (4) a true conception of educational values; (5) a broad range of scholarship and general culture. Every opportunity is improved to impress upon the students the fact that the object of education is not primarily the communication of knowledge, but sym-

metrical development of mental and moral capacity. It is a prominent object of instruction in the history of education to make the history of nations illustrate on a grand scale the fact that defective and stunted types of civilization are largely due to false educational ideas. The belief is that students will be helped in this way, as they can in no other, to a true conception of what education should be, and to a realization of its transcendent importance. It is an equally prominent object of instruction in the history of education to help students to gather from the theories of the great educational reformers those principles which may fairly be claimed to have universal validity, and to have a place in the science of pedagogy.

As a further preparation for the science of education, psychology is studied with great care. After a careful and critical study of the history of education and psychology has familiarized students with the true idea of education and the principles upon which intelligent efforts to attain it must be based, instruction is given in the science of education—which is but the systematic and orderly statement of the principles with which at that point students are already familiar—and also in methods.

If the primary end of education is development of capacity rather than the communication of knowledge, the question which Spencer regards as first in logical order in the theory of education, "what knowledge is of most worth?" is not the first, or even second. The question is, what faculty is of most worth? What stress shall be laid upon the culture of the various faculties of the mind in order to attain the true end of education, the symmetrical development of the entire man? And the second is, what is the education-value of the various studies in

the curriculums of our schools and colleges? In other words, what is their capacity when rightly studied to contribute to this end? This is deemed an important part of the theory of education, and the attempt is made to give students as definite an idea of it as its great difficulty and complexity admit.

Nor is any opportunity neglected to impress upon students the fact that the highest success possible to the teacher cannot be obtained by the pedant, however profoundly he may have studied the science and art of education. The effort is constantly made to make them feel that to succeed as teachers, they must be men with a broad range of sympathies, interested in all that concerns men.

While these ideas may be said to shape the methods of instruction in this department with all classes, very different degrees of prominence are given to them under different circumstances, the attempt being made to have regard to the needs and development of students. The Department of Pedagogy, as at present organized, has two courses—a short course about equal in length and thoroughness to that of the best state normal schools in the country, and a long course, leading to the degree of Bachelor of Pedagogy, and fully equal in thoroughness and culture value to any of the other courses offered by the college. The great object of instruction in the Department of Pedagogy, in the shorter course, is to give students as vivid an idea as possible of the true value of education, and a living knowledge of the being to be educated—"the living, learning, playing child." Text book instruction in psychology is constantly supplemented by reports of observations of children, and students are daily asked to report observations that illustrate the matter in hand—

or indeed observations of children in general. The attempt is made to interest students in children as deeply as possible, since all methods of teaching have their roots in the nature of their minds.

The history of education in the shorter course aims, (1) to interest students in the lives and labors of the pioneers of educational thought, and (2) to emphasize those theories that seem to be of a practical character to-day.

Pedagogy proper, in a shorter course, is largely a study of methods. The subject is taken up in the last term of the year, after psychology and the history of education have been pursued, and it is one of the chief aims to fix and organize the practical suggestions and hints that have been made in connection with those two subjects.

In the longer course, the department aims to keep constantly in mind that it is dealing with those who are to be leaders of the educational thought. The aim is to teach Psychology with such thoroughness that those students who afterwards become Superintendents may teach it intelligently to their students, and at the same time learn all that it has to teach concerning the principles that underlie all correct methods of teaching.

Students are urged and stimulated to accept nothing on the authority of the text-book when it can be at all avoided. An important aim of the instruction is to encourage them to verify as far as possible the statements of their author—to induce them, in a word, to study the *subject*, and not simply a book about the subject.

The history of education in this course is divided into two parts: First, a study of educational ideals, and ideas and theories and systems and institutions of the past as they have appeared in the great nations of the

world ; and second, a study of contemporaneous systems and institutions—state and city school systems in this country, American colleges and the systems of England and France and Germany. It is a chief aim of this department to train students of education to develop an interest in, and an aptitude for, the study of the subject that underlies all others. Students are made to feel that the varying educational systems and institutions all over the world are so many experiments in the great educational laboratory, and that society has the highest possible interest in knowing precisely what these experiments teach. It is made a part of their work to make studies of educational subjects, the results of which are read before the class and thoroughly criticised by them.

The study of the history of education proper is to a large extent a study of the intellectual development of the world, since the history of education is the history of one of the most important factors of that development.

The science of education in this course aims to take a survey of the entire subject—aims to put students at the point of view where they have a keen appreciation of such practical problems, as courses of study, school architecture, superintendence, etc., as well as to give them a clear grasp of the principles and methods that naturally follow mental laws. And here as everywhere, the aim is to keep as close to life as possible—to illustrate the various conclusions reached, by an appeal to the actual experience of some part of the world, wherever that is possible.

PEDAGOGY.

PROFESSOR ALLIN AND MR. CLYDE BROWN.

Course 1. Pedagogical Values; the worth of the various studies.

Text-books: Herbert Spencer, Education: intellectual, moral and physical. Selected readings from other authors. The value attached to the different studies in different culture—epochs will be carefully studied. The Recapitulation-Theory will also be matter of investigation.

COURSE II. HISTORY OF EDUCATION.

Text-books: Davidson's Aristotle; Quick's Educational Reformers; Aristotle's Politics; Grote's History of Greece; Laurie's Universities; the Great Educators Series; Pestalozzi's Leonard and Gertrude; Rousseau's Emile; Life and Lectures of Horace Mann; Spencer's Education; Gordy's Development of the Normal School Idea in the United States. These are all required subjects for students taking the Pedagogical Course.

COURSE III. SCIENCE OF EDUCATION.

Text-books: Bain's Education as a Science; De Gar-mo's Essentials of Method. Books of reference: Rosenkranz' Philosophy of Education; Fitch's Lectures on Teaching. Required of all members of the Senior Class taking the Pedagogical Course.

ELECTIVES IN PEDAGOGY.

Seeley, The Common School System of Germany; Paulsen, German Universities; Aiken, Methods of Mind Training; Ross, School System of Ontario.

Students who are admitted to Honor Courses will be required to take the equivalent of one recitation a day in the department in which they expect to teach during the last two years of their course.

HONOR COURSE FOR THE JUNIOR YEAR.

Mill's Logic ; James' Psychology, two volumes ; Plato's Republic ; Aristotle's Politics ; Grote's History of Greece, the Chapter on Socrates ; Laurie's Universities, and Comenius. De Guimp's Pestalozzi ; Lectures of Horace Mann ; Gordy's Development of the Normal School Idea in the United States ; Seminary in Genetic Psychology once every two weeks, original problems being investigated.

HONOR COURSE FOR THE SENIOR YEAR.

Students taking the Honor Course in the Senior Year will devote themselves to a study of Educational Ideals in Europe. Their reading will be directed toward giving them a grasp of the relation between such ideals and the civilization of which they were to a greater or less degree the expression. The line of thought to be especially considered will be the reciprocal influence of the ideals and the social conditions that called them into being.

Seminary: City School Systems, once every two weeks.

PSYCHOLOGY, ETHICS AND PHILOSOPHY.

PROFESSOR ALLIN assisted by MR. BROWN.

The courses indicated below are intended for undergraduate students and for such graduate students as have not already taken their equivalent. It will be noticed that much of the work outlined in the Honor Courses is covered by class-work and lectures. The advanced courses are open to students who have completed the preliminary work.

FALL TERM.

1. *Psychology* (required), James' Psychology. Briefer Course.

Books of Reference : James' Principles of Psychology ; Ladd, Outlines of Physiological Psychology. Four hours a week.

2. *Hypnotism* (elective).

The History, Methods and Results of Hypnotic Investigations, accompanied, where practicable, with experimental demonstrations.

Books of Reference : Moll's Hypnotism, with the authorities there referred to ; Proceedings of the Society for Psychical Research.

3. *History of Modern Philosophy* (elective).

Descartes' Method and Meditations; Russell's Philosophy of Locke; Hume's Treatise on Human Nature, Book I.

Books of Reference : Falkenberg's History of Modern Philosophy; Ueberweg's History of Philosophy, Vol. II; Windelband. Four hours a week.

4. *Advanced Logic* (elective).

Mill's System of Logic or Sigwart's Logic, 2 vols.

Books of Reference : Lotze, Sigwart, Bradley, Jevons, and Bosanquet, Karl Pearson, the Grammar of Science.

The following alternative courses are also offered as electives, to continue throughout the year.

5. *Spencer's Philosophy*.

Spencer's First Principles and Principles of Psychology.

Books of Reference: Fiske's Cosmic Philosophy, Lewes' Problems of Life and Mind. Two hours a week; or

6. *Lotze's Philosophy*.

Lotze's Metaphysics and Microcosm.

Books of Reference: Bowne's Metaphysics; Lotze's Outlines. Two hours a week.

WINTER TERM.

7. *Logic* (required).

Jevon's Elements of Logic. Books of Reference: Mill's System of Logic: Fowler's Inductive Logic. Four hours a week.

8. *History of Modern Philosophy* (continued as an elective).

A study of Kant as in Watson's Selections from Kant and articles in the Philosophical Magazines, with reference to the critical work of Caird, Watson and Morris. Two hours a week.

9. *History of Philosophy* (required).

Fraser's Selections from Berkeley, with lectures on Ancient Philosophy.

Books of Reference: Schwegeler and Ueberweg.

10. *Ethics* (elective.)

Murray's Introduction to Ethics; Essays and Discussions.

Books of Reference: Sidgwick's History of Ethics and Methods of Ethics; Martineau's Types of Ethical Theory. Four hours a week.

11. *Physiological Psychology* (elective).

This course will begin with lectures on the nervous system, with microscopical demonstrations, and will include a series of experiments selected from Sanford's Laboratory Course.

ELECTIVES IN PSYCHOLOGY.

Halleck, Education of the Central Nervous System, Ferrier, Functions of the Brain, 2d ed. Clouston, Text-book of Mental Diseases, 3d ed. McKendrick and Snodgrass, Physiology of the Sense Organs. Donaldson, Growth of the Brain. Ribet, Psychology of Attention

and Diseases of the Will. Baldwin, Mental Development of the Child and the Race.

HONOR COURSE IN PHILOSOPHY.

This course extends over two years and is subject to the regulations for Honor Courses. It is open only to students who have already taken the required work in Psychology and Logic and have therein shown special aptitude for philosophical studies. A knowledge of German, sufficient to enable the student to read German works in Philosophy, will also be required. The following is an outline of the required reading :

THIRD YEAR.

James' Principles of Psychology; Mill's System of Logic; Plato's Theætetus; Grote on Socrates; History of Greece, Vol. 8, Ch. 48; Descartes' Methods and Meditations; Locke's Essay on Human Understanding; Fraser's Selections from Berkeley; Hume's Treatise on Human Nature, Book I; Murray's Introduction to Ethics.

FOURTH YEAR.

Physiological Psychology as above; Muensterberg's *Beitraege zur experimentellen Psychologie*, Heft. I.; Lotze's Philosophy as above; Watson's Selections from Kant; Caird's Philosophy of Kant; Spencer's Philosophy as above; Aristotle's Nichomachean Ethics; Spinoza's Ethics; Green's Prolegomena to Ethics.

POLITICAL SCIENCE.

ASSOCIATE PROFESSOR HIGLEY.

Instruction in the principles of Civil Government is given in the Preparatory Department. The text-books used are named below, but they serve for little more than to

indicate the order in which the various topics are studied. The public is just now especially interested in questions of political economy and in the larger one of sociology. Consequently many books and shorter articles are constantly appearing in the public prints, many of them worthy of the attention of the student who wishes to keep abreast with the progress of thought in these matters. The standard works are, however, carefully studied and the views therein expressed, examined and discussed with approval or dissent.

A right understanding of the questions arising from the subjects connected with the department is regarded as of the highest moment to those who will hereafter become members of the body politic; and no pains are spared to equip them for a right understanding of the social problems in the solution of which they may hereafter be called upon to assist.

Among the periodicals especially to be recommended to the students in this department are *The Forum*, *The N. A. Review*, *The Political Science Quarterly*, and *The Annals of The American Academy of Political and Social Science*. Lator's *Cyclopædia of Political Science* is at all times accessible. It is the constant aim of the teaching in this department to impress upon the students the importance of investigating political and social questions in the light of all facts bearing upon them, with minds as free as possible from partisan prejudices and preconceived theories.

WINTER TERM.

1. *Political Economy* (required).

Laughlin's *Political Economy* will be the text-book used and will be supplemented by essays and discussions in class upon the leading economic questions of the day.

Books of Reference: Lator's *Encyclopædia of Politi-*

cal Science ; Marshall's Principles of Economics ; Hadley's Economics ; Articles in the Forum, North American Review, Political Science Quarterly, and other magazines. Four hours a week.

2. Seminary for the study of economic problems. Open to students who have already completed the required work. Subject for '97 and '98 ; Immigration and its effects. Two hours a week.

SPRING TERM.

3. History of Tariff Legislation in the United States from 1789 to 1890. For advanced students.

Text-books: Taussig's Tariff in the United States.

Books of Reference : Lalor's Cyclopædia; Von Holst, Bancroft, Schouler and Rhodes; Statesman Series, etc.

4. Coinage Laws of the United States, from 1789-1893.

References : Works of Hamilton, Jefferson, Benton, Gallatin and others; American State Papers; Congressional Globe, and Magazine Articles. Three hours a week in spring term.

5. A comparative study of State Constitutions. Two hours a week in fall term.

UNITED STATES HISTORY.

ASSOCIATE PROFESSOR HIGLEY.

Course I. Epochs in American History. Text-Books : Volumes I, II, III of the Epoch Series in American History ; The American Statesman Series and American History Series will be used for reference. This work is obligatory and continues throughout the year.

Course II. History of the Constitution. Text-Books : Andrews' Manual of the Constitution. Works of refer-

ence: The Madison Papers; Cushing's Manual; Von Holst's History of the Constitution; The Federalist, and the Constitutional History of the United States by Curtis. This work is elective and is open to all students who have taken Course I. The class will meet twice a week in the Winter Term.

HONOR COURSES.

Junior Year. Jeffersonian Republicanism. Text-Books: History of the United States from 1801 to 1817 by Henry Adams. Books to be read: The Writings of Jefferson, Madison, Gallatin, Fisher Ames; New England Federalism, Annals of Congress, American State Papers, Randolph's Jefferson, Rives' Madison, Adams' Gallatin, together with the Biographies of other leading men of the period. Course I is required as a preparation for this. The class meets twice a week throughout the year.

Senior Year. History of the United States from 1850 to 1860. Text-Books: Rhodes' History of the United States. The following works are to be read: Von Holst's History of the United States, Selections from the Congressional Globe and State Papers; Schouler's History of the United States; the Lincoln-Douglas Debates, the Dred Scott Decision, Wilson's Rise and Fall of the Slave Power; Life and Letters of Francis Lieber; Herndon's Lincoln; Curtis' Buchanan; Schucker's Chase, and the Biographies of other prominent men of the period. The class will meet twice a week throughout the year.

Seminary in United States History: Webster's Speeches or the Monroe Doctrine, as the class may prefer.

PHYSICS AND ELECTRICAL ENGINEERING.

PROFESSOR ATKINSON.

ASSISTANT, MR. F. H. SUPER.

1. *Elementary Practical Physics.*

This course is designated for students in the Classical, Philosophical and Pedagogical courses, of whom one term is required in the Sophomore year. The course consists of a series of physical measurements in the laboratory directed towards imparting clear ideas of the fundamental laws of mechanics, and of general physical process such as measurements of length, area, volume and mass, specific gravity, tenacity, elasticity; also outlines of the subject of heat. The laboratory work will be supplemented by lectures and recitations on the methods and principles involved. In addition to giving the student familiarity with the principles and methods of physical measurements, particular attention is paid to the training of the senses to accuracy in observation and manipulation, full notes being taken in the laboratory. Lectures twice a week, laboratory twice a week, of two hours each.

Note: This course cannot be given next year on account of the physical laboratory not being completed. A substitute will be offered.

2: *General Physics.*

This course is required throughout the Junior year of the Scientific course, and may be taken as an elective by students in the other courses, provided they have taken those studies required regularly of students in this course. In all cases, unless previously taken, the Junior course in Chemistry must be begun in connection with this work in Physics. No student can enter upon this course until he has completed the mathematics of the first two

years of the Bachelor of Science course. Students electing Analytical Mechanics will be excused from the first term of Physics. The instruction is given by means of oral and written recitations with experimental demonstrations. Carhart's University Physics is used as a text book, but frequent references will be given to works bearing upon the subjects discussed. The first term is devoted to kinematics, dynamics, the conceptions and properties of matter and sound; the second, to heat and light, and the third, to electricity and magnetism. A portion of each term is spent in the laboratory in finding experimental proofs of the general principle discussed. The object of the course is to give accurate conceptions of the general principles of the science, and to find their bearing on the law of the conservation of energy.

3. *Physical Laboratory.*

A practical laboratory course in heat, light and sound is open as an elective to those who have taken Course 1. Two times a week, two hours each, for the second term.

4. *Heat.*

Open to those who have taken Course 2. This course is offered as an elective during the second term. Maxwell and Tait will be used as text-books. Two hours a week.

5. *Light.*

Instead of Course 4, and on the same conditions, this course may be elected. Lectures and recitations. Two hours a week for the third term.

6. *Physical Laboratory.*

This course is offered during the third term to those who have taken Courses 2 and 3, and consists of exact measurements in electricity and magnetism; for which purpose there is a very good laboratory, (though it is

small). Space for a fine electrical laboratory is allotted in the new building now being constructed. Every facility will be provided. Stewart and Gee, Kempe, Carhart and Patterson, and Ayrton will be used constantly as laboratory references. Three times a week, of two hours each.

ELECTRICAL ENGINEERING.

The rapid development of electricity for the purpose of light and power, and its general introduction into nearly all sections of the country, have created a great demand for men well qualified in this branch of engineering. This profession now offers more inducements to young men, and the chances of rapid promotion is greater than in almost any other field; this condition of affairs will doubtless prevail for some years to come. The thoroughly educated man who combines practical experience with the theoretical knowledge of electricity and magnetism is in special demand, as many of those now engaged in this vocation are but poorly fitted for its duties. The University possesses a model incandescent light plant, used for lighting the buildings and campus, with the design of extending to the student practical training in the construction, operation and care of electrical and steam machinery.

The plant, though at present not very large, is nevertheless modern in all its parts, and meets the present requirements of the college for light and power very satisfactorily. Both direct and alternating systems are used. The switches and fittings on the board, the wiring and general installation are all the work of the students. Modifications and extensions give others excellent opportunities to obtain valuable practice. Owing to additional buildings the college lighting station and equipment

must in the near future be enlarged to meet the greater demands.

The electrical profession requires a certain amount of mechanical ability and training in the use of tools and machinery for working both wood and metals. The department is provided with two shops, a metal and wood-working shop. These are supplied with wood and metal working lathes, and a complete outfit of tools, to which additions are being constantly made. As will be seen from the outlined course below, while mastering the use of tools the student is taught the construction of useful pieces of apparatus for laboratory purposes. The ability thus to construct apparatus and machinery, to preserve the proper relations of the several parts in fitting them together, and in overcoming difficulties that may arise in embodying one's ideas, has a high educational value, aside from its practical aspect.

The theoretical portion of the work is indicated below. This includes, also, seminary work with reference to the leading treatises on electricity and magnetism and the machinery employed for lighting and power. Periodicals, as the Electrical Review, Electrical Engineer, Electrical World, Power, Scientific American, Popular Science News, Scientific American Supplement, Electricity and Engineering Magazine, are kept on file, and are included in the seminary references. This work is collateral with a series of lectures extending through the year. For the practical plant work each division of those in this course is now on duty one night out of each week. Each engineer is required to keep a record of steam pressure and of the current of each machine at regular intervals. There is cooperation with the city arc light plant, and an additional night of each week is spent in learning its care and operation under competent super-

vision. Here also steam readings are taken every fifteen minutes, and the amount of coal consumed and water evaporated is measured accurately, and estimate made of the cost in coal per pound of water evaporated; also the amount of coal used per indicated horse power per hour, and the fuel cost for each lamp that is maintained. The student is thus from the beginning taught to operate an electric light plant both with efficiency and economy.

Requirements: This course is elective as a whole, and it is expected that those electing it unless they have previously taken a portion of it, shall pursue the course regularly. None will be admitted to the course without sufficient mathematical preparation. The required number of hours must be made up from one of the regular courses. Mathematics is required up to and including Trigonometry, though analytical Geometry, Calculus and analytical Mechanics are strongly recommended. The Junior courses in Physics and Chemistry are also required. When the regular electrical course and the above required studies are completed, a certificate will be given showing the character of the work done, and where it is deserved, a recommendation of the student's ability and proficiency in theoretical and practical electricity. The following is an outline of the course as at present constituted; this, however, is subject to such changes from time to time as the rapid development of the subject may dictate:

FIRST YEAR.

FIRST TERM.

Electricity and Magnetism. Elementary principles. Five hours a week.

Electric Light Arithmetic. Calculations of resistance and conductance; wiring; fall of potential; batteries. Two hours a week.

Shop work. Wood turning; metal boring; filing; polishing. Four hours a week.

Free hand drawing. Simple geometric solids, one and two views; outlines of simple geometric solids in perspective. Three hours a week.

Plant duty. Operation of college incandescent and city arc stations. One night a week each.

Steam. Care and management of steam boilers and engines; lectures. One hour a week.

English. Five hours a week.

Mathematics. Five hours a week.

SECOND TERM.

Electricity and magnetism. Lectures with notes and seminary on the general theory of electricity and magnetism. Two hours per week.

Electric Light Arithmetic. Calculations of work and energy; electro-magnets; dynamos and motors. Two hours a week.

Shop work. Metal turning; bolt cutting; tapping. Four hours a week.

Mechanical Drawing. Simple geometric drawing for accuracy and neatness in the use of instruments; lettering; use of scales. Three hours a week.

Free-hand Drawing. Outlines and shaded studies of geometric solids; single and grouped; outline and shaded studies of vase forms. Three hours a week.

Plant duties. Operation and care of college and city stations; trimming and testing lamps. One night a week at each station.

Steam. Care and management of steam boilers and engines ; lectures. One hour a week.

English. Five hours a week.

Mathematics. Five hours a week.

THIRD TERM.

Electricity and Magnetism. Lectures with notes and seminary on the theory of dynamo-electric machines ; direct current. Two or three hours a week.

Electric Lighting. Lectures and notes on methods of wiring for arc and incandescent lighting ; rules and regulations ; estimates. Plans and specifications. Two hours a week.

Shop work. Simple pieces of apparatus ; binding posts ; wire connectors ; switches, etc. Four hours a week.

Mechanical Drawing. Copying working drawings ; descriptive geometry. Three hours a week.

Plant Duty. Care and operation of college and city stations. One night a week each.

Steam. Care and management of steam boilers and engines ; lectures. One hour a week.

English. Five hours a week.

Mathematics. Five hours a week.

SECOND YEAR.

FIRST TERM.

Electricity and Magnetism. Lectures with notes and seminary on the theory of dynamo-electric machines ; alternating current. Two hours a week.

Steam Engineering. General theory of the steam engine ; theory and construction of details ; dimensions for required power ; steam engine indicators, theory and use ; valve gears and their adjustment. Two hours a week.

Shop Practice. Construction of simple laboratory apparatus. Four hours a week.

Mechanical Drawing. Boiler and steam engine drawing. Three hours a week.

Plant Duty. Care and partial supervision of college and city lighting stations. One night a week each.

Seminary. Investigation and writing upon assigned work. One or two hours a week each.

Mathematics. Five hours.

Electric Railway. Recitations, two hours.

SECOND TERM.

Electricity. Alternating currents of electricity. Two hours a week. Or lectures on polyphase currents. Two hours.

Electrical Laboratory. Testing of dynamos and motors for two characteristics, efficiency and regulation. Two hours a week.

Shop Work. Small motor and dynamo building; miscellaneous construction work. Four hours a week.

Mechanical Drawing. Working drawings and plan of machinery from models. Three hours a week.

Plant Duty. Care and partial supervision of college and city plants. One night a week each.

Steam. Two hours.

Electric Railway. Recitations. Two hours. Plans and specifications. Two hours.

Mathematics. Five hours.

Seminary. Same as first term.

THIRD TERM.

Electricity. Lectures with notes on theory of instruments, and absolute measurements in electricity and magnetism. Two hours a week.

Electrical Laboratory. Absolute measurements in electricity and magnetism. Four hours a week.

Transmission of Energy. Bell's Electrical Transmission of Power. Three hours a week.

Shop Work. Construction of galvanometer and other station testing apparatus. Four hours a week.

Mechanical Drawing. Construction of working drawings from specifications. Three hours a week.

Wiring. Instruction and rules. Two hours. Plans and specifications. One hour.

Mathematics. Five hours.

Seminary. Same as preceding terms.

It is not possible just now to fix the fees for the elective laboratory work in that department of Physics, but the fee will be nominal in all cases. Those taking the engineering course will be charged a sum not to exceed twelve dollars per year. A dollar a term is required of those taking mechanical drawing alone.

Arrangements will be made in case of certain special students (who are qualified) whereby a one year's course may be adapted from the above. Any inquiries concerning this course will receive prompt attention.

HONOR COURSE.

JUNIOR YEAR.

First Term—(a) Physical Laboratory. Mechanics and Properties of Matter, three hours per week. (b) The Conservation of Energy, two hours per week. (c) The Properties of Matter, three hours per week. (d) Modern Views of Electricity.

Second Term—(a) Physical Laboratory. Light, Heat and Sound, two hours per week. (b) Theory of Heat, two hours per week. (c) Light, two hours per week. (d) Sound, two hours per week. (e) Mechanical Drawing, or

some subject in Direct Currents of Electricity, two hours per week.

Third Term—(a) Physical Laboratory. Electricity and Magnetism, four hours per week. (b) Shop Practice. Wood and Metal Working, three hours per week. (c) Mechanical Drawing, or some subject on Alternating Currents of Electricity, two hours per week. (d) Electrical Transmission of Energy, three hours per week.

Ten hours of Pure Mathematics must be studied during the Junior Year in addition to the above.

SENIOR YEAR.

The entire Senior Year will be spent upon the mathematical theory of some of the subjects studied in the Junior Year, *e. g.*, the Theory of Heat, of Light, of Sound, and of Electricity and Magnetism, twenty hours per week.

NOTE.—Before entering upon the work of this course, the student is required to have completed the Junior courses in Physics and Chemistry, as prescribed in the Scientific Course, or its equivalent. Evidence of proficiency in these preliminary studies will be rigidly exacted. A reading knowledge of French and German will be indispensable to students taking this course. Students will be required to pass satisfactorily a thorough written examination upon the studies of each term in the Junior Year before he can be promoted into the next.

CHEMISTRY.

PROFESSOR FAY.

In this department the following courses are offered :

Inorganic Chemistry: This course extends over two terms and consists of four laboratory exercises per week, in which the student from the beginning is instructed in the handling of apparatus and the making of experiments, and one or more reviews per week of the subjects treated in the text-book and the work done

in the laboratory, including questions put both to and by the student. Problems in writing are also given out from time to time to make the student familiar with such calculations as the chemist needs. The laboratory work is considered an important part of this course, as being the best means of gaining a clear understanding of the fundamental ideas of chemical science, of the connection between Chemistry and Physics and of general laws regarding the combination of the elements and their inorganic compounds. Incidental mention is also made of the various applications of chemical laws and products to the ends of the arts, medicine, and manufacturers. During the latter weeks of this course, some time is given to the study of the History of Chemistry.

Text-books, Remsen's Introduction to the study of Chemistry (Briefer Course); Venable's Short History of Chemistry.

Recommended for reference, Roscoe and Schorlemmer's Elements of Chemistry, Bloxam's Inorganic Chemistry.

Analytical Chemistry: The work of this course, which will require two terms for its completion, naturally falls into two divisions:

1. Qualitative Analysis, four laboratory exercises per week during one term. After gaining further practice in chemical manipulation and a wider knowledge of the compounds and reactions of the common elements, the student advances to a systematic course in Inorganic Qualitative Analysis. Ores, alloys, mixtures of salts and technical products are examined both in the dry and wet way.

2. Quantitative Analysis, four laboratory exercises per week during one term. In this division a course follows

in Inorganic Quantitative Analysis, both gravimetric and volumetric. The composition of ores, minerals, fertilizers, technical products, etc., is determined. At the same time the study of general Inorganic Chemistry is continued during each division of this course, with one or more reviews each week.

Text-books, Hills' Manual of Qualitative Chemical Analysis, Fresenius Quantitative Analysis, Remsen's Advanced Course in Inorganic Chemistry.

Recommended for reference, Fresenius' Qualitative and Quantitative Analysis.

Organic Chemistry: The work of this course consists of four laboratory exercises per week for one term. The same method is pursued here as in the study of general Inorganic Chemistry, great stress being laid upon the laboratory work. The compounds of carbon are prepared and examined with reference both to their physical properties and chemical relations. There will be one or more reviews each week.

A reading knowledge of German will be helpful to the student in this course.

Text-books, Remsen's Introduction to the Study of the Compounds of Carbon, Fischer's Laboratory Manual.

Recommended for reference, Roscoe and Schorlemmer's Elements of Chemistry; Richter's Organic Chemistry, translated by Smith.

In addition to the preceding regular courses, there will also be given opportunities for doing practical work along special lines; e. g., examination of coal, potable waters, illuminating gas, fertilizers and fertilizing materials, food products, etc. Medical students will have a good chance to gain such chemical knowledge and practice as they need.

Graduation in Inorganic Chemistry is required for the B. A., B. Ph. and B. Sc. degrees. Elective work in

chemistry may be taken as per prescribed courses. For information concerning the honor course in Chemistry, see elsewhere.

For graduation in the shorter Pedagogical course, see elsewhere.

At the end of a course, a laboratory examination, supplemented by a further written or oral examination, will be held, the attainment of the usual grade being required for graduation. A small deposit for breakage must be made before a desk is assigned in the laboratory.

The chemical laboratory embraces a main workroom, storeroom, weighing room, lecture hall and private office of the Professor. It is warmed throughout by hot air and water and lighted by electricity; it is well supplied with approved appliances, apparatus, etc. The desks are furnished with gas, water and all apparatus and chemicals necessary for practical work. The facilities for table work thus offered are excellent. No labor or expense will be spared to render this department thoroughly efficient and to keep it abreast of the times both in the methods of instruction employed as well as in its general outward equipment.

For summer course, see special circular.

HONOR COURSE IN CHEMISTRY.

The following "Honor Course" in Chemistry is offered in lieu of one of the regular collegiate courses, subject to the conditions and limitations above specified for "Honor Courses." Before taking up this course the student must have completed the course in Inorganic Chemistry, or an equivalent, and if the student, on being admitted to this course, does not already possess a fair reading knowledge of German, he will be expected to acquire such knowledge during his Junior year.

JUNIOR YEAR.

Fall Term. Geology (4), Mineralogy and Crystallography (3), Junior Physics (4), Analytical Chemistry (9).

Winter Term. Mineralogy and Crystallography (3), Junior Physics (4), Analytical Chemistry (13).

Spring Term. Junior Physics (4), Analytical Chemistry (16).

SENIOR YEAR.

Fall Term. Physics, properties of matter (3), Organic Chemistry (17).

Winter term. Physics, heat (3), Organic Chemistry (17).

Spring Term. Physics, Experimental Electricity (3), Organic Chemistry (17).

The general nature of the work in this course is the same as in the case of the regular courses, the only difference being that it is more extended and the examinations more searching.

ELOCUTION AND ORATORY.

CATHARINE A. FINDLEY, ASSOCIATE PROFESSOR.

The design of this department is to make good conversationalists, good readers, good speakers. The ideal speaker must not only instruct his hearers, but he must persuade them and move them to action. His power, apart from the importance of his subject, lies in his personal magnetism, which depends largely on the measure of his sympathies. That which the speaker has to impart to his audience of *his personal experience at the time of speaking* persuades his hearers and moves them to action.

The constant effort made in the reading lesson to put ourselves in rapport with the author; to see what he sees and feel what he feels, develops and controls our own

imaginative and emotive powers. Our voices and our bodies become instruments of communication between us and our hearers. Now, then, comes the need for training. Believing that the voice is simply a medium for the soul's emotions, we develop it to its greatest extent of power, flexibility and beauty, that it may more powerfully set forth those emotions.

But we do not stop here. There is a language more eloquent than words—the language of the eye, the hand, the plastic form. Nor can these be separated from the voice. When we are stirred to speak, the face lights up, the chest expands, the whole body becomes infused with new life, and speaks a language more eloquent than words.

That master of expression, Francois Delsarte, spent his life in the study of human nature as exhibited in unconscious action—especially of the southern nations, who gesticulate more freely than we do—and from that study he deducted a method by which we train the whole muscular system to respond to every change of the soul's emotions.

The course then, will include, in connection with the study of literature, the development of the voice and the training of the form according to the Delsarte method.

First Term.—Physical culture, development of the voice, inflection, phrasing and expressive reading, using Curry's Classic Selections as a text-book.

Second Term.—Development of the voice, articulation and pronunciation, with use of the same text-book.

Third Term.—Æsthetic gymnastics for relaxing, energizing and directing muscular force; gesture begun; the use of a dramatic classic as a text-book.

Fourth Term.—Gesture continued with use of a dramatic classic as a text-book.

Two declamations or orations per term will be required from each student.

An elective, consisting of the dramatic rendering of a Shakespearian drama, will be offered during the middle term of the Senior year to those who have completed the courses in Literature and Elocution.

MODERN LANGUAGES.

KATE CRANTZ, ASSOCIATE PROFESSOR.

Modern Languages are taught from a practical standpoint. Our object is to secure three things; facility in translation at sight, and as wide a range of reading as is possible in the time allowed; some study of the literature of each language; and practice in translation from English into the foreign tongue, with a training of the ear by conversation.

The required work in this department is six terms of German, and three of French, for all students in the Philosophical and Scientific Courses; and, if elected, three of German or French for all in the Pedagogical Course.

All advance work in German is based on a thorough knowledge of the grammar and an ability to read narrative prose with ease. No abridged method of any kind is used, and all examinations are held in German. The work for the ensuing year is as follows :

PREPARATORY GERMAN.

First Term.—Grammar and Written Exercises, five hours per week.

Second Term.—Grammar, two hours per week; Translation, three hours.

Third Term.—Translation, three hours per week ; Composition, one hour ; Conversation, one hour.

COLLEGIATE GERMAN.

First Term.—Translation, two hours per week ; Composition, one hour ; Conversation, one hour.

Second Term.—Translation or Reading, five hours per week.

Third Term.—Translation or Reading, five hours.

FRENCH.

First Term.—Grammar and Written Exercises, five hours per week.

Second Term.—Grammar, two hours per week ; Translation, two hours.

Third Term.—Translation, four hours per week.

ELECTIVES—IN FRENCH:

First Term.—Critical reading of Corneille's *Polyeucte*, with private reading of Hugo's *Ruy Blas*.

Second Term.—Critical reading of Hugo's *Quatre Vingt-treize*, with the private reading of selections from French History.

Third Term.—Critical reading of De Vigny's *Cinq Mars*, with the private reading of selections from Modern Fiction.

VOCAL AND INSTRUMENTAL MUSIC.

MYRTLE STINSON AND LULA C. KING, INSTRUCTORS.

Additional instructors will be provided by the opening of the Fall term, '97.

The Board of Trustees have recently added a course in Music without determining precisely what its relation to the other departments should be. This course for the present is as follows :

- a.* Chorus and Sight-reading.
- b.* Voice Culture.
- c.* Piano and Theory.

Under the first, the work is distributed into elementary instruction on the lines and spaces as representing sounds; notes as representing quantity; the clefs, rhythm, the diatonic major scale. Further lessons in dictation in connection with blackboard exercises for the purpose of familiarizing the student with the simplest succession of tones and rhythmic form. Next, the interval system. Here progressive exercises are used in order to familiarize the pupil with the various intervals, and particular attention is given to correct intonation and purity of tone. Finally, the theoretical and practical development of the major and minor scales, followed by exercises in the use of both modes.

With students of the second grade the matter in the first is recapitulated. This is followed by solfeggio exercises in two parts on the compositions of ancient and modern masters. Pupils of the third grade, study three and four part compositions in which special stress is laid on the acquisition of a correct pronunciation of both vowel and consonant sounds.

Under the head of Voice-culture, instruction is given upon the correct position while singing; the position of the mouth, tongue and larynx; the manner of attacking and leaving a note; the manner of forming pure tones in the different registers, and of connecting tones without slurring. Next in order are respiratory exercises in which the pupil is taught how to acquire a long, noiseless and easy breathing by slow inhalations and exhalations. These are followed by exercises in scales, runs, trills and other embellishments. The laws of expression as set forth in the works of old and modern masters are

also studied. Last in order is the expression of vowel and consonant sounds. The pupil is taught how to pronounce distinctly without injuring the purity of the vocal tones.

PIANO.

This instrument is studied in the following order :

First Grade.—Doerner's Technical Exercises, Grade 1 ; Kohler's Studies, opus 151, 157 and 50 ; Loeschorn's Studies, opus 84, Nos. 1 and 2 ; Diabelli's Studies, opus 125 ; sonatinas and easy pieces by Lichner, Spindler, Reinke and Kohler.

Second Grade. — Doerner's Technical Exercises, Grades 1 and 2 ; Lebert and Stark, vol. 2 ; Loeschorn's Studies, opus, 66, No. 1 ; scales, major and minors in thirds and sixths ; broken chords and arpeggios both major and minor ; Studies by Hiller, opus 45 and 46 ; Sonatinas and the easier pieces of Kullak, Clementi, Kohler and Scharwenka ; Brethorn's Rondo in C major and Brethorn's Variations, opus 3.

Third Grade.—Doerner's Technical Exercises, Grades 1, 2 and 3 ; Kullak's first book of octave studies ; Czerny's Velocity Studies ; Cramer's Studies ; Bach's Inventions in two and three voices : Schuman's Compositions ; Mendelssohn's Songs without Words, and Sonatas by Mozart and Haydn.

Fourth Grade. — Doerner's Technical Exercises, Grades 1, 2 and 3 ; Kullak's second book of octave studies ; Tausig's Daily Studies ; Czerny's Daily Studies ; Gradus and Parnassum, by Clementi ; Bach's Well-tempered Clavichord ; Mendelssohn's Songs without Words. Finally, Mozart and Beethoven's Concertos together, with compositions by old and modern masters.

All the pupils in this department are required to take the complete course in Harmony contained in Classes A

and B of Broekhoven's System of Harmony. The requirement for the pupils in vocal music is limited to class A. Students' recitals will be given in the college chapel each term, in which all who are qualified will be expected to take part. The value of such practice need not be dwelt on here.

With a view to encouraging the systematic study of music it may be taken as an elective on the same conditions as those provided for other electives. Music, if properly studied has an educational value nearly or quite equal to any other branch. But it is of far less importance to be a fine player than an intelligent judge of good music. Those who wish to become performers will be accommodated as far as possible, but the chief attention of the teachers will be directed towards the attainment of genuine musical culture.

Students who have had three years of lessons on the piano, two per week, and one of theory, or an equivalent, may be excused from all language study in the Preparatory Department. Musical theory shall constitute one study and may be pursued as long as the student desires to do so. Those who take two lessons per week in instrumental music or vocal training may receive credit for 75 hours' elective work per year. A good knowledge of English will be insisted on. Those who attain a sufficient degree of proficiency in music may receive a certificate in addition to their diploma.

Among the text-books used will be Behnke's Mechanism of the Human Voice; Behnke's & Browne's Voice, Speech and Song, and The Child's Voice; Elson's German Song and Song Writers; Fay's Music Study in Germany; Fetis' Music Explained to the World; Goodrich's Music as a Language, and Complete Musical Analysis; Hand's Aesthetics of Musical Art; Upton's Stand-

ard Operas and Oratorios; Biographies of the Great Musicians by Nohl and by Hueffer; Ritter's History of Music; Musical Accoustics by Broadhous; Groue's Dictionary of Music and Musicians, etc.

A comparison of the above course with any other in the country will show that it is surpassed in excellence and thoroughness by none and equaled by few. Those who complete it will not only have an intelligent comprehension of music both in itself and its relation to the other arts of civilization but will possess an excellent education in addition. A musical literary club meets once in two weeks for the study of the literature and history of music.

DRAWING AND PAINTING.

CHRISTINE S. BREDIN, INSTRUCTOR IN HIGH ART IN
DRAWING AND PAINTING.

SARAH STINSON, INSTRUCTOR.

It is the aim of this department to give a practical knowledge of art, and to lead pupils, through the cultivation of their observing powers, to an appreciation and love of the beautiful as found in nature and expressed in the handiwork of man. As form-study and drawing furnish the foundation for this course of instruction, special attention is given to that part of the work. No pupil will be allowed to take painting who has not had at least three terms of drawing. Charcoal is the medium chosen, and all drawings must be made from the object. Pencil and pen and ink may be used in advanced grades. Instruction in out-of-door sketching will be offered during the spring term to those who have completed five terms in charcoal drawing.

The course of instruction is as follows:

DRAWING.

First Grade.—(1) Outlines from geometrical solids. (2) Shaded studies from geometrical solids. (3) Outlines and shaded studies from still life. (4) Outlines and shaded studies from features.

Second Grade.—(1) Outlines for elementary blocked heads. (2) Detached features of the face, hands and feet in outline. (3) Detached features of the face, hands and feet shaded.

Third Grade.—(1) Outline from advanced blocked heads. (2) Masks in outline. (3) Masks shaded. (4) Busts in outline and shaded the size of the original.

Fourth Grade.—(1) Outline from life. (2) Shaded studies from life.

PAINTING.

First Grade.—Still life objects, single and in groups.

Second Grade.—Still life in draperies.

Third Grade.—(1) Studies from nature. (2) Studies from life.

COMMERCIAL DEPARTMENT.

This work is arranged to meet the large demand on the part of regular as well as special students for instruction in the commercial studies. It is recognized that a course in this department is not all of an education, but a very useful and important part. The regular student has an opportunity during his college course to obtain a knowledge of business rules and customs which will be invaluable to him when he afterwards goes into business or enters a profession. The special student, who takes only this work, has the same advantages of library, reading room, literary societies, etc., as regular students, and may enter any of the regular or preparatory classes without

extra charge. Moreover, the special student finds contact with the general college work helpful and inspiring. A reasonable amount of credit of any of the regular courses will be given to college students for this work.

COURSE I.—BUSINESS.

C. M. COPELAND, INSTRUCTOR.

1. THEORY OF ACCOUNTS. Five hours per week for two terms. Ample practice is given in the systems of accounts used in the various kinds of business from retailing to modern banking. It is the aim of this course to give the student a wide acquaintance with business methods and to secure proficiency in opening and closing books, journalizing; rendering statements, tracing errors, analyzing accounts, and drawing business papers.

2. ACTUAL BUSINESS AND OFFICE PRACTICE. Five hours per week for one term, and open to students who have taken Theory of Accounts. This work is on the inter-collegiate communication plan, and the transactions are with students of other colleges. The business correspondence, growing out of purchases, sales, remittances, and collections, making settlements and adjusting accounts, carried on with a number of advanced students in other cities, each one doing best for his school, must certainly develop a high grade of efficiency in all the student's work.

3. COMMERCIAL LAW AND BUSINESS FORMS. Each two hours per week for one term. This work deals mainly with the subjects of contracts, agency, partnership, sales, and negotiable paper, and is intended to give the student an acquaintance with the principles that govern business transactions.

COURSE II.—STENOGRAPHY.

MABEL K. BROWN, INSTRUCTOR.

It is the aim of this course to teach the subject thoroughly, rather than to turn out so-called stenographers in a few months. Special attention is given to the fundamental principles of the art, as this method is believed to lead to greatest saving of time in the long run. Special inducements are offered to students intending to make law or medicine their profession to fit themselves to take notes at lectures. While the regular course is intended to cover ten months, or the whole college year, students showing special ability are encouraged and helped to finish the course in a shorter time.

First Term.—Fundamental principles of Stenography; drill in writing and reading words, sentences, and simple reading matter.

Second Term.—Principles of abbreviation, dictation for speed practice, study of business and legal forms.

Third Term.—Review of principles of outline formation, dictation of miscellaneous matter.

TYPEWRITING.

In typewriting the first months of the course are spent by the student in acquiring a correct method of fingering. Business letters and legal forms are next taken up, followed by practice leading to high speed. As soon as practicable the student is expected to transcribe neatly and quickly the notes he has taken from dictation. Punctuation and the correct use of capitals are taught throughout the whole course.

Students may enter either course at the beginning of any term. Those who complete either course as outlined above will be granted a certificate, for which a fee of

\$3.00 is charged. The tuition is \$5.00 and contingent fee \$3.00 per term for each course; tuition and contingent fee for both courses taken at the same time, \$13.00 per term.

The books and supplies for Course I cost about \$2.75 per term; for Course II about \$1.25.

PREPARATORY DEPARTMENT.

ELI DUNKLE, A. M., PRINCIPAL.

This department is designed to prepare students for the regular courses of the college. Students are also received who wish to pursue elementary studies, even though they may have no intention of entering upon one of the higher courses.

Candidates for admission to this department must furnish satisfactory evidence of good character, and must pass examination in Geography, Arithmetic as far as percentage, English Grammar as far as syntax and all studies of the courses lower than those which they wish to pursue. Much of the instruction is given by the regular college professors.

Persons who have certificates from county examiners in Ohio will be admitted without examination in the subjects named in the certificates. But students who expect to graduate from the Normal department must give evidence that they are thoroughly familiar with the common school branches. Opportunity is offered every term for reviewing some or all of these. Additional information of interest to those who contemplate entering this department will be found in other parts of this catalogue.

SUMMER TERM.

Experience has shown that a considerable number of young persons desire to profit by such opportunities for

instruction as can be offered during the months of July and August. Accordingly a summer term will begin June 21, 1897, and continue six weeks. For this term the tuition will be six dollars, or for less than the entire term, one dollar per week. Most of the classes in the Preparatory department, but especially those in the common branches, will be organized during this term and will receive the same attention as during the rest of the year. Those students who have done advanced work or propose to do so, but who feel the need of reviewing the elementary branches will do well to avail themselves of this opportunity. Students who desire to pursue advanced subjects during this term will be accommodated as far as possible; and will receive credit for them in the same manner as if taken at any other time of the year.

For further particulars address,

THE PRINCIPAL.

Courses of Study

IN

Collegiate Department.

REQUIRED SUBJECTS FOR THE DEGREE OF BACHELOR OF ARTS.

FRESHMAN YEAR.

Fall Term—Greek (5); Latin (5); Solid Geometry (5).

Winter Term—Greek (5); Latin (5); Algebra (5).

Spring Term—Greek (5); Latin (5); Plane Trigonometry (5).

SOPHOMORE YEAR.

Fall Term—Greek or Latin (5); Physics (5.)

Winter Term—Greek or Latin (5); Physiology (5.)

Spring Term—Greek or Latin (5); Biology (5.)

JUNIOR YEAR.

Fall Term—English Literature (5); Chemistry (4).

Winter Term—Chemistry (4); Political Economy (4).

Spring Term—English Literature (5).

SENIOR YEAR.

Fall Term—Advanced Botany or Geology (5); Psychology (3).

Winter Term—Logic (4); Astronomy (4); Psychology (3).

REQUIRED SUBJECTS FOR THE DEGREE OF
BACHELOR OF PHILOSOPHY.

FRESHMAN YEAR.

Fall Term—Latin (5); German (5); Solid Geometry (5).

Winter Term—Latin (5); German (5); Algebra (5).

Spring Term—Latin (5); German (5); Plane Trigonometry (5).

SOPHOMORE YEAR.

Fall Term—French (5); Physiology (5).

Winter Term—French (4); Physics (5).

Spring Term—French (4); Biology (5).

JUNIOR YEAR.

Fall Term—English Literature (5); Chemistry (4).

Winter Term—Chemistry (4); Political Economy (4).

Spring Term—English Literature (5).

SENIOR YEAR.

Fall Term—Advanced Botany or Geology (4); Psychology (3).

Winter Term—Logic (4); Astronomy (4); Psychology (3).

Spring Term—Philosophy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF
BACHELOR OF PEDAGOGY.

FRESHMAN YEAR.

Fall Term—U. S. History (5); Solid Geometry (5); A Foreign Language (5).

Winter Term—U. S. History (5); Algebra (5); A Foreign Language (5).

Spring Term—U. S. History (5); Plane Trigonometry (5); A Foreign Language (5).

SOPHOMORE YEAR.

Fall Term—A Foreign Language (5); Advanced Physiology (5).

Winter Term—A Foreign Language (5); Physics (5).

Spring Term—A Foreign Language (5); Biology (5).

JUNIOR YEAR.

Fall Term—A Foreign Language (5); English Literature (5).

Winter Term—A Foreign Language (5); History of Education (5).

Spring Term—A Foreign Language (5); English Literature (5); History of Education (5).

SENIOR YEAR.

Fall Term—Psychology (3); English Literature (5).

Winter Term—Logic (4); Astronomy (4); Psychology (3).

Spring Term—Science of Education (4).

REQUIRED SUBJECTS FOR THE DEGREE OF
BACHELOR OF SCIENCE.

FRESHMAN YEAR.

Fall Term—Latin (5); German (5); Solid Geometry (5).

Winter Term—German (5); Latin (5); Algebra (5).

Spring Term—German (5); Latin (5); Plane Trigonometry (5).

SOPHOMORE YEAR.

Fall Term—French (4); Spherical Trigonometry (4).

Winter Term—French (4); Analytical Geometry (4).

Spring Term—French (4); Biology (5).

JUNIOR YEAR.

Fall Term—Physics or Mechanics (4); English Literature (5); Chemistry (4).

Winter Term—Physics (4); Chemistry (4).

Spring Term—Physics (4).

SENIOR YEAR.

Fall Term—Advanced Botany or Geology (4); Psychology (3).

Winter Term—Logic (4); Astronomy (4); Psychology (3).

The figures in parenthesis indicate the number of exercises per week. To the obligatory work there should be added eighty exercises in Elocution and sixty in Pedagogy—the latter in the early part of the course. It is believed that the above four courses are equal in educational value, and all require about twenty-five hundred hours of class-room work for their completion. In addition to the obligatory subjects the students will be permitted to elect any other for which in the judgment of the Faculty he is prepared.

Conspectus of Preparatory Courses.

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O.

FIRST YEAR—First Term.			
<i>Classical.</i>	<i>Philosophical.</i>	<i>Scientific.</i>	<i>Pedagogical.</i>
Latin, Grammar and Reader. English. Grammar and Composition. Arithmetic.	Latin, Grammar and Reader. English. Grammar and Composition. Arithmetic.	Latin, Grammar and Reader. English. Grammar and Composition. Arithmetic.	Latin, Grammar and Reader. English. Grammar and Composition. Arithmetic.
Second Term.			
Latin, Grammar and Reader. English. Grammar and Composition. English Literature.	Latin, Grammar and Reader. English. Grammar and Composition. English Literature.	Latin, Grammar and Reader. English. Grammar and Composition. English Literature.	Latin, Grammar and Reader. English. Grammar and Composition. English Literature.
Third Term.			
Viri Romae. Waddy's Rhetoric. Geography, Physical.	Viri Romae. Waddy's Rhetoric. Geography, Physical.	Viri Romae. Waddy's Rhetoric. Geography, Physical.	Viri Romae. Waddy's Rhetoric. Geography, Physical.
SECOND YEAR—First Term.			
Viri Romae. Greek, Grammar and Reader. History of the United States.	Viri Romae. Zoology. History of the United States.	Viri Romae. Zoology. History of the United States.	Viri Romae. Zoology. History of the United States

C.

Second Term

Viri Romae and Cicero's First Oration against Catiline. Greek, Grammar and Anabasis begun. History of England.	Viri Romae, etc. Physics. History of England.	Viri Romae, etc. Physics. History of England.
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Third Term.

Catilinarian Orations, II, III, IV. Greek, Grammar and Anabasis General History.	Catilinarians, II, III, IV. Civil Government. General History.	Catilinarians, II, III, IV. Civil Government. General History.
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THIRD YEAR—First Term.

Cicero's Oration pro Archia, pro Marcello and first Philippic. [pic. Algebra begun.	Cicero's Oration pro Archia, pro Marcello and first Philippic. [pic. German begun. Algebra begun.	Psychology. Algebra.
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Second Term.

The Aeneid, I, II, III. Homer's Iliad. Greek Prose. Algebra continued.	The Aeneid, I, II, III. German continued. Algebra continued.	History of Education. Chemistry. Algebra begun.
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Third Term.

The Aeneid, IV, V, VI. Homer's Iliad, three books. Greek Prose. Plane Geometry. Rhetoric.	The Aeneid, IV, V, VI. German continued. Plane Geometry. Rhetoric.	Methods of Teaching. Systematic Botany. Plane Geometry. Rhetoric, Genung.
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REMARKS:—In the Pedagogical Course two years or six terms of English Literature may be taken instead of the Latin, and much stress is laid on a good knowledge of English in all the courses. Those who have completed any of them are expected to read well and understandingly, to write English correctly and to have some knowledge of literature. At least eighty hours of class work in Reading and Elocution must be taken by those who expect to pursue work in the latter branch. Students who have completed the Pedagogical Course will receive diplomas if they desire. The fee for this diploma is three dollars.

List of Students.

COLLEGIATE DEPARTMENT.

POST GRADUATES.

Brookover, Charles, B. Ped.....	Athens
Copeland, Charles Moffatt, B. Ped..	Athens
Roach, Minnie Orma, Ph. B.....	Athens
Schofield, Frank Crain, A. B.....	Fayetteville, Mo.
Schwefel, Caroline, A. B.....	Athens
Wilson, H. Roy, A. B.....	Hamden Junction

CLASS OF 1896.

Bebout, James.....	Logan
Black, Anna Mildred.....	Glen Ebon
Burns, Esther Helen.....	Athens
Copeland, Charles Moffatt.....	Athens
Cornwell, David Benjamin.....	Athens
Douglas, Stephen Arnold.....	Waco, Texas
Half, Samuel.....	Circleville
Hoover, Benjamin Franklin.....	Lodi
Kindt, George Abraham Lincoln.....	Mauch Chunk, Pa.
McCulloch, Alva Wright.....	Mt. Hope
McCune, Samuel Levi.....	Athens
Roach, Minnie Orma.....	Athens
St. Clair, Anna May.....	Portsmouth
Schwefel, Caroline.....	Athens
Shepard, Cassius M. M.....	Burr Oak
Thomas, David Hollis.....	Cheshire
Thomas, William Alexander.....	Athens
Ullom, Mary Elliott.....	Athens
Wilson, H. Roy.....	Hamden Junction

SENIORS.

Atkinson, John Hampton.....	Nelsonville
Beveridge, John Harrie.....	Buck Run
Cobb, Nellie Bly.....	Wellston

Connett, Della May.....	Athens
Dailey, W. Bert.....	Athens
Foss, Ashley Francis.....	Chicago, Ills.
Foster, Zella.....	Point Rock
Gillett, Nita Elizabeth.....	Athens
Hill, Linna Harriet.....	Athens
Hobson, Rebekah Estella.....	Athens
Jones, Anna Marie.....	Athens
Jones, John Wesley.....	Oak Hill
LeFavor, Zenia Estella.....	Athens
Mayer, Harry Walter.....	Sacramento, Pa.
Miller, John Lewis.....	Langsville
Moulton, Frank Warwick.....	Lucasville
Osborne, Addison Pratt.....	Athens
Shumate, William Jasper.....	Oak Hill
Smith, Charles Clement..	Pleasant Run

JUNIORS.

Batterson, Frank John.....	Athens
Cornwell, Alma Elizabeth.....	Athens
Craig, Florence Maude	Athens
Hahn, George V.....	Coshocton
Murdoch, Lucie Marnelle.....	Chillicothe
O'Bleness, Charles Garnett.....	Athens
Reah, Grace.....	Zaleski
Scott, Winfield Kenath.....	Athens
Towsley, Mabel Leone.....	Athens
Tullis, Don Delano.....	Longreach W. Va.
Ullom, Josephus Tucker.....	Athens
Wickham, Ada Ann.....	Glen Ullin, N. Dak
Weethee, Lucy Wilkins.....	Millfield

SOPHOMORES.

Bennett, Gilbert Abel.....	Amesville
Bennett, Newman Hall.....	Jacksonville
Bolinger, Michael H.....	Nelsonville
Brown, George Wilber.....	Piketon
Clayton, David Roy.....	Athens
Garber, Ginevra Edna.....	Athens
Gist, Grace Lilla.....	Athens
Hastings, Laura Matilda.....	Athens

Heizer, Charles Francis.....	Georgetown
Henderson, John Frederick.....	Rowland
Henson, Clarence Cherington.....	Clay
Hooper, Dolly.....	Athens
Hoover, Bertha Blanche.....	Athens
Houston, Virginia Miller.....	Warwick, N. Y.
Kohberger, Henry Paul ..	Warwick, N. Y.
Kaler, Charlotte Rannells.....	Athens
Kaler, Mary Engle.....	Athens
Koons, Stella Irene.....	Athens
Lash, Eli Reynolds, Jr.....	Athens
Millar, Charles William.....	Wakefield
Pickett, Ada Blanche.....	Athens
Renz, Bessie Rose.....	Athens
Rink, Albert Otto.....	Athens
Risley, Walter John.....	Logan
Taylor, George Montford.....	McConnellsville
Thomas, Orin Gould.....	Athens
Wilson, Blanche Nellie.....	Athens

FRESHMEN.

Bahrman, Harry Rockafeller.....	New Milford, N. Y.
Batterson, George Andrew.....	Athens
Bean, Lonzo Gardner.....	Athens
Blackwood, Edith Pearl.....	Athens
Blackwood, Lulu Emma.....	Athens
Bradshaw, Alice May.....	Athens
Casto, Lyllian Dorcas.....	Parkersburg, W. Va.
Cline, Cecil Roy.....	Mt. Blanco
Connett, Mabel Elizabeth.....	Athens
Eikenberry, Charles Murray.....	Camden
Evans, Margaret Lucile.....	Athens
Fuller, Nellie May.....	Athens
Herrold, Mabel Maud.....	Athens
LeFavor, Della Amanda.....	Athens
Lewis, Mary Adelyn	Lee
Linscott, Albert Franklin.....	Amesville
Merwin, Erwin Clyde.....	Athens
Morse, Bert Edmund.....	Athens
Ogier, Willian John.....	Hamden Junction
Pickett, James Ernestine.....	Nelsonville

Roberts, John Ellis.....	Lysander
Shaw, Elizabeth.....	Athens
Sheldon, Thomas Henry.....	Athens
Skinner, Beverly Oden.....	Redfield
Sloane, Justine Alice.....	Ironton
Smith, Blanche Estelle.....	Athens
Smith, Elizabeth Della.....	Athens
Stearns, Clifford Heald.....	Washington, D. C.
Townsend, Mary Allen.....	Athens
Tullis, Flora Blanche.....	Longreach, W. Va.
Voorhees, Leon Vaughn.....	Frankfort
Welch, Philip Johnson.....	Athens
Welch, Thomas Cadwallader.....	Athens
Wickham, Mabel Leona.....	Glen Ullin, N. Dak.
Wilson, Mabel Zoe.....	Athens
Wood, Mary Ellen.....	Athens

IRREGULAR AND SPECIAL STUDENTS.

Baird, Harriet.....	Nelsonville
Brown, Elizabeth Ina.....	Millfield
Burns, Esther Helen, A. B.....	Athens
Curran, Bernard F.....	Corning
Foster, Israel Moore, Ph. B.....	Athens
Gist, Dorothy.....	Athens
Grosvenor, Grace, Ph. B.....	Athens
Hildrup, Hattie Sophia, B. L.....	Athens
Linton, Nancy Elvira.....	Athens
McCune, Martha Hull.....	Athens
McCune, Samuel Levi, Ph. B.....	Athens
Martzolff, Clement Luther.....	Buchtel
Meloy, Sue.....	Athens
Moore, Stella McGrath.....	Athens
Pilcher, Thomas Milroy.....	Athens
Poston, Lulu.....	Nelsonville
Roach, Sarah Maud.....	Athens
Rochester, Mrs. F. C.....	Athens
Super, Francis Henry, B. S.....	Athens
Thomas, William Alexander, A. B.....	Athens
Ullom, Mary Elliot, A. B.....	Athens
Weethee, Mrs. J. P.....	Millfield
Welch, Ella Cadwallader.....	Athens
Wilson, Olive Amanda.....	Athens

THIRD PREPARATORY.

Baker, Fay Athens.....	Athens
Barr, Fred W.....	Brice
Black, Jennie.....	Glen Ebon
Brown, Minnie Frances.....	Athens
Brown, William Allen.....	Athens
Caldwell, George Washington.....	Lottridge
Caldwell, James Everett.....	Canby, Cal.
Casto, Dorr Clayton.....	Parkersburg, W. Va.
Chaney, James William.....	Bourneville
Dew, Perley Leroy	Athens
Eckley, Elma Garnett.....	Athens
Evans, Jacob Claire.....	Athens
Gibson, Elza Goodspeed.....	Athens
Gibson, Ned Curfman.....	Amesville
Gibbs, Austin Josiah.....	Athens
Griest, William Franklin.....	Pennsville
Hambleton, Benjamin Franklin.....	Hooksburg
Hill, Myrtle Lucile.....	Guysville
Irwin, Rochester.....	South Perry
James, Arthur Ellsworth.....	Wellston
James, Frederick Murphy.....	Logan
Johnson, Fred Preston.....	Trimble
Koons, Eva Maud.....	Athens
Koons, Inez Leona.....	Athens
McLane, Arwillla Carrie.....	Athens
Matheny, Charles Morris.....	Mansfield
Miles, Albert Garfield.....	Athens
Mohler, Elizabeth Dorcas.....	Lee
O'Bleness, Ralph Alphonzo.....	Athens
Paine, Howard Shepherd.....	Hamden Junction
Pilcher, Benjamin Luther.....	Canaanville
Rardin, Adda May.....	Athens
Reah, Mary.....	Zaleski
Reese, David.....	Shawnee
Renz, Cora Frederica.....	Athens
Riley, Ethel Eleanor.....	Athens
Riley, Mary Martina.....	Athens
Robbins, Eva.....	Mineral
Robbins, Henry Oscar.....	Mineral
Robbins, Martha.....	Mineral

Robbins, Mary Elizabeth.....	North Branch, N. J.
Root, Alexander.....	Big Run
Sloane, Jessie Pauline	Athens
Somers, Alice Mary.....	Athens
Stewart, Edith Fulghum.....	Tupper's Plains
Travis, John Francis.....	Green Camp
Treber, Ina Edna.....	West Union
Walsh, Anna Gertrude.....	Athens
Warden, Mary Elizabeth.....	Athens
Wells, Harry Bundy.....	Wellston
Williams, Joshua Handel.....	Oak Hill
Witman, Dwight Newcomb.....	Athens
Yeager, Thomas Hyatt.....	Portsmouth

SECOND PREPARATORY.

Alexander, Inez Boyd.....	Athens
Allen, Mary Besse.....	Hebbardsville
Althar, Edward Downing.....	Jackson
Andrews, Daisy.....	Derthick
Armstrong, Elmer	Hebbardsville
Atkins, Mary Madge.....	Snowville
Atkins, Nancy Maud.....	Snowville
Atkinson, Lynna Myrtle.....	Nelsonville
Atwood, Eva Marthina.. ..	Athens
Barker, Dora Belle.....	Athens
Batterson, Mayme Alice	Athens
Bay, Isabel Jane.....	Museville
Bean, Parrill.....	Guysville
Beattie, Estella Maud.....	Nelsonville
Beckler, Herbert Sheldon	Athens
Beebe, Cora Dell.....	Stewart
Bell, Katherine.....	Athens
Bellows, Lawrence Harper.....	Marshfield
Bennett, Dora Adeline.....	Mountville
Bethel, Lucile May.....	Athens
Beverage, Leonora.....	Marshfield
Beverage, Lorena.....	Marshfield
Biddle, Ada Augusta.....	Fisher
Biddle, Frank.....	Fisher
Boden, Corrilla Theresa.....	Marshfield

Brill, Leora Lena.....	Broadwell
Brown, Emma Lilly.....	Grosvenor
Brown, Ethel Mary.....	Grosvenor
Brown, Lulu Cecile.....	Athens
Caldwell, Josephine.....	Coolville
Cameron, Charles Edward.....	Athens
Carlton, Anna Matilda.....	Coolville
Carr, James Dent.....	Athens
Conner, May Sherwood.....	Athens
Cook, Florence Ora.....	Beebe
Cooley, George William.....	Mt. Blanco
Cooley, Guy Bower.....	Athens
Curry, Lena.....	McArthur
Curtis, Grace Undine.....	Athens
Dailey, Irma Mabel....	Athens
Danford, Monford Elijah.....	Athens
Dean, Amanda Melissa.....	Athens
Dent, Bessie Maud.....	Hebbardsville
Deshlie, Margaret Gertrude.....	Logan
Dew, Cassius Guy.....	Nelsonville
Dew, Stanley.....	Nelsonville
Dixon, Floyd.....	Athens
Doan, Hattie Elzina.....	Frost
Downey, Wilber.....	Judson
Droz, Adolphus Charles.....	Guysville
Dugan, John Wesley.....	Rehoboth
Falls, Ida Lenore.....	Bishopville
Figley, Charles Clifford.....	Athens
Frost, Stella.....	Coolville
Gist, John Dent.....	Athens
Hammond, Frederick Louis.....	Guysville
Harris, May Putnam.....	Athens
Hatch, Henry Arlow.....	Frost
Hatch, Mattie Marie.....	Frost
Hedges, Fred Augustus.....	Athens
Hooper, Olah Angell.....	Athens
Hope, John Thomas.....	Athens
Hopkins, Hannah Jane.....	Downington
Hopkins, Kate Amanda.....	Downington
Howard, Charles Albert.....	Athens
Howard, Effie Luella.....	Athens

James, Florence Ann.....	Hixon
Johnson, Ernest Ross.....	Hanesville
Jones, Willie.....	Guysville
Kaler, Joseph Watson.....	Athens
King, Hoit Stimson.....	Mineral
King, Nora Alice.....	Mineral
Kirkendall, Emmet Royal.....	Lysander
Laverty, Adam James.....	Jacksonville
Leyden, Anna X.....	Buchtel
Lovell, Earl Blaine.....	Joy
Lovell, Lucile Spurr.....	Lathrop
Lovell, Paul Vane.....	Joy
Lowry, Frank Sprague.....	Athens
McBeth, Waldo David.....	Bowerston
McMurray, John Boyd.....	West Middletown, Pa.
McPherson, Joseph Elwyn.....	Jasper
Malone, Anna Cecilia.....	Coolville
Matheny, Lou Ella.....	Marshfield
Michael, Edgar Clark.....	Athens
Mills, Nihle Eugene.....	Guysville
Mourne, Maud Lillian.....	Nelsonville
Neff, Mary Belle.....	Anvil
Neff, Nora.....	Key
Nixon, Bertha Evelyn.....	Buchtel
Nunemaker, Tunis.....	Logan
O'Bleness, Mamie Lulu.....	Athens
Patterson, Alice Gertrude.....	Hebbardsville
Patterson, Edna, Cina.....	Hebbardsville
Powell, Flora.....	Broadwell
Pugh, Ruth Emile.....	Nelsonville
Reed, Howard Franklin.....	Hemlock
Rickey, Lester.....	Creola
Roach, Clarence Wayne.....	Athens
Roach, Nellie Ostella.....	Athens
Roach, Orr Rufus.....	Athens
Roberts, Blanche.....	Millfield
Robinett, Stephen Edward.....	Marshfield
Root, Edna.....	Athens
Russell, Mazie Alma.....	Athens
Russell, Nettie Gertrude.....	Vanderhoof
Sackett, Florence Margaret.....	Athens

Sayre, Corbitt Ruel.....	Sayre
Scott, Jennie Beatrice.....	Nelsonville
Shamel, George Maynard.....	Pleasanton
Sheffield, Alice May.....	Carbondale
Sheldon, Bessie.....	Athens
Sheldon, Walter Rice.....	Athens
Shepard, Carl Dunkle.....	Stella
Sidders, Mabel Glendora.....	Athens
Siniff, Orin Virgil.....	Athens
Snow, Grace Leota.....	Athens
Southerton, Nona Cecil.....	Athens
Sprague, Jennie Edith.....	Millfield
Strate, Lenetta May.....	Roseville
Talbott, Roy Winton.....	Sargents
Taylor, Charles Stanley.....	Wakefield
Thomas, Edward Morgan.....	Delaware
Thomas, Lewis Stewart.....	Langsville
Thomas, Mary Gwendolyn.....	Athens
Tinker, Eugene.....	Austin
Tripp, Homer Floyd.....	Jackson
Walker, Maud I.....	Athens
Walker, Nellie Hutchens.....	Athens
Ward, Winifred.....	Buchtel
Warden, Winifred Augusta.....	Athens
Welling, Clara Leora.....	Chauncey
Welling, Michael Clifford	Chauncey
White, Gershom Franklin.....	Hooksburg
White, Rolley Anson.....	Nelsonville
Wiley, Lola Claire.....	Guysville
Williams, Mary Margaret.....	Shade
Wilson, Flora Lavene.....	Young Hickory
Wilson, Ida Althea.....	Nelsonville
Wollett, Harley Anson.....	Haydenville
Wood, James Perry.....	Athens
Wood, John Vorhes.....	Athens
Wood, Mary.....	Zelda
Wood, Victoria Almeda.....	Zelda
Workman, Albert Clinton.....	Jelloway
Zimmerman, George Alexander.....	Lee

FIRST PREPARATORY.

Bartlett, Harry Guthrie.....	Athens
Bean Parrill.....	Guysville
Bell, May Florence.....	Mineral
Brown, Alfred Oscar.....	Athens
Clendenin, Antoinette.....	Lee
Dailey, Orville Davis.....	Lee
Dulaney, Harlan Herbert.....	Mountsville
Hopkins, Weltha Vianna.....	Downington
Howard, Minnie Beatrice.....	Millfield
Imes, Leroy Laney.....	Marshfield
Jacoby, Gertrude.....	Sand Run
Kern, Margaret Mabel.....	Athens
King, Samuel Warren.....	Mineral
Koons, Herman Lloyd.....	Athens
Macklin, Leo Patrick.....	Athens
Miller, Artemas Roy.....	Scranton, Miss.
Mills, Clara Ginevra.....	Athens
Moss, Josiah Alvin.....	Broadwell
Peters, John Herman.....	Athens
Petitt, Rebecca May.....	Oakdale
Powell, Flora.....	Broadwell
Rochester, Alexander.....	Athens
Roush, Pearl.....	Athens
Russell, Kyle Denton.....	Lee
Sheldon, Sadie M.....	Athens
Shepard, Lydia Ann.....	Burr Oak
Snow, Dalton Clifford.....	Athens
Snow, Herbert Lindley.....	Athens
Snyder, Orin Earl.....	Mountville
Steenrod, Estella Wynona.....	Nelsonville
Thompson, Hart.....	Athens
Whaley, James Howard.....	Athens
Wilcox, Elizabeth Alice.....	Athens

SUMMARY,

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	<hr/>
Total.....	368

Alumni Association.

Constitution.

ARTICLE I. This Association shall be called the "Alumni Association of the Ohio University."

ART. II. The Officers of the Association shall be a President, Vice President, Secretary, Treasurer, and an Executive Committee, consisting of three members, to be chosen annually.

ART. III. The annual meetings of this Association shall be held in connection with the Commencement exercises of the University.

ART. IV. The object of this Association shall be to cultivate fraternal relations among the Alumni of the University, and to promote the interests of our Alma Mater by the holding of social reunions, by literary exercises, or by such other means as the Association may, from time to time, deem best.

ART. V. Any member of the Faculty, and graduate of the University, also anyone who has spent three years in the college classes of the University, and has been honorably dismissed, may, by the payment of one dollar and the signing of the Constitution, become a member of this Association.

ART. VI. This Constitution may be altered or amended at any annual meeting, by a vote of two-thirds of those present at such meeting.

ART. VII. *Amendment.* The members of this Association shall each pay into its treasury an annual fee of one dollar, and the sum so paid shall be expended in defraying the expenses of the annual reunion.

OFFICERS OF THE ALUMNI ASSOCIATION FOR 1896-7.

President, E. J. Jones, Class of '73.

Vice-President, Mabel K. Brown, Class of '89.

Secretary, B. O. Higley, Class of '92.

Treasurer, H. E. Dickason, Class of '77.

EXECUTIVE COMMITTEE.

E. J. Jones, '73.

L. M. Jewett, '61.

L. G. Worstell, '88.

Margaret Boyd, '73.

T. R. Biddle, '91.

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CATALOGUE

OF THE

OHIO UNIVERSITY

ATHENS, OHIO.

FOR 1897-8.

1898
MESSENGER AND HERALD PRINTING CO.,
ATHENS, OHIO.

Calendar for 1898=9.

FALL TERM begins September 13, and ends December 23.

HOLIDAY VACATION begins December 24, and ends January 2, 1899

WINTER TERM “ January 3, “ March 17.

SPRING VACATION “ March 18, “ March 27.

SPRING TERM “ March 28, “ June 22.

COMMENCEMENT EXERCISES, 1898, June 18-22.

June 22, Commencement.

Corporation.

Board of Trustees.

APPOINTED

Gov. A. S. Bushnell, (<i>ex-officio</i>).....	Columbus.....	—
Isaac Crook.....	Athens.....	—
Hon. E. H. Moore.....	Athens.....	1861
Hon. George W. Boyce.....	Cincinnati.....	1875
Hon. V. C. Lowry.....	Logan.....	1885
L. M. Jewett, Esq.....	Athens.....	1887
Hon. Chas. Townsend.....	Athens.....	1887
Rev. David H. Moore, D. D.....	Cincinnati.....	1889
C. C. Davidson.....	Alliance.....	1891
Prof. A. Leue, Ph. D.....	Cincinnati.....	1891
R. E. Hamblin.....	Toledo.....	1890
Geo. M. Woodbridge, Esq.....	Bellaire.....	1890
Hon. Lucien J. Fenton.....	Winchester.....	1892
J. E. Benson.....	Cleveland.....	1892
E. J. Jones, Esq.....	Athens.....	1893
J. M. Welch, Esq.....	Athens.....	1895
Wm. E. Bundy, Esq.....	Cincinnati.....	1896
J. P. Wood, Esq.....	Athens.....	1896
F. C. Whiley.....	Lancaster.....	1896
Albert Douglas.....	Chillicothe.....	1897
H. W. Coultrap, Esq.....	McArthur.....	1897

Officers of the Board.

ISAAC CROOK, President.

A. J. FRAME, Treasurer.

L. M. JEWETT, ESQ., Secretary and Auditor.

Executive Committee.

ISAAC CROOK,

J. M. WELCH,

LEONIDAS M. JEWETT,

GEORGE W. BOYCE,

ELIAKIM H. MOORE,

CHARLES TOWNSEND,

E. J. JONES,

F. C. WHILEY,

H. W. COULTRAP.

Faculty.

ISAAC CROOK, D. D., LL. D.,
President and Professor of Ethics and Sociology.

CHARLES W. SUPER, Ph. D., LL. D.,
Professor of Greek.

DAVID J. EVANS, A. M.,
Professor of Latin.

WILLIAM HOOVER, Ph. D.,
Professor of Mathematics and Astronomy.

WILLIS BOUGHTON, A. M.,
Professor of Rhetoric and English Literature.

HENRY E. CHAPIN, M. S.,
Professor of Biology and Geology.

WILLIAM E. HENDERSON, Ph. D.,
Professor of Chemistry.

ALBERT A. ATKINSON, M. S.,
Professor of Physics.

ARTHUR ALLIN, A. M., Ph. D.,
Professor of Psychology and Pedagogy.
(Resigned, Nov. 1897.)

ELI DUNKLE, A. M.,
Principal of the Preparatory Department and Associate Professor of Greek.

CATHARINE A. FINDLEY,
Associate Professor of Elocution and Reading.

KATE CRANZ, A. M.,
Associate Professor of German and French.

HORACE M. CONAWAY, A. M.,
Associate Professor of Latin and European History.

OHIO UNIVERSITY.

BREWSTER O. HIGLEY, M. Ph.,
Associate Professor of American History and Political Economy

CLYDE BROWN, Ph. B.,
Associate Professor of Philosophy and Logic.

LOUIS BAKER PHILLIPS, Mus. B.,
Instructor on Piano.

LULA C. KING,
Instructor in Voice Culture.

SARAH STINSON.
Instructor in Drawing.

CHARLES M. COPELAND, B. Ped.,
Instructor in Commercial Branches.

MABEL K. BROWN, B. Ph.,
Instructor in Stenography and Typewriting.

FRANCIS H. SUPER, B. S.,
Assistant in Electrical Engineering.

H. ROY WILSON, A. M.,
Instructor in English.

CHAS. BROOKOVER, M. S.,
Instructor in Biology.

ELI DUNKLE, A. M.,
Secretary and Librarian.

CHARLES G. MATTHEWS, Ph. M.,
Assistant Librarian.

General Information.

Ohio University.

ORIGIN OF THE UNIVERSITY.

The existence of the Ohio University was provided for as early as 1787, in the purchase made from the Government of the United States by the Ohio Company of Associates. By the contract between these two parties, two townships of land were set apart for the purpose of a University, and placed under the care of the Legislature of the State. The University was organized under an act of the Legislature passed in 1804. Its Trustees are appointed by State authority and the Governor of the State is *ex-officio*, a member of the Board.

LOCATION.

Athens, the seat of the University, is situated in the southeastern part of the State. It is easily accessible from the east and west by the Baltimore and Ohio Southwestern Railroad and its branches; from the central and northern portions of the State by the Columbus, Hocking Valley and Toledo, and Kanawha and Michigan Railways. By these routes it is about one hundred and sixty miles east from Cincinnati, and seventy-five miles southeast from Columbus.

The lover of natural scenery cannot fail to be charmed with its picturesque surroundings. The winding valley of the Hockhocking and the wooded hills beyond, present a series of lovely views from the University, while the wide prospects, as seen at certain seasons from some of the neighboring summits, are seldom surpassed in quiet and varied beauty.

The University buildings are located in a beautiful campus. They occupy a slight elevation extending east and west across the grounds, fronting the north. Before them lies a park of about five acres containing a grove of fine forest trees and skirted along its northern limit by a row of magnificent elms. Beyond these sentinel trees extends a green sward sloping beautifully to the street. In front of the line at the northwest angle stands an elegant soldiers' monument. When this park is lighted up at night by electricity it presents a charming view. The remainder of the campus in the rear of the buildings is devoted to recreation.

BUILDINGS.

These are of brick and six in number. The central building was erected in 1817, and is the oldest college edifice northwest of the Ohio River. This venerable structure is dear to many by strong and tender associations, and to many more by names of eminent men who have here studied and taught. It has been modernized and is admirably adapted to its uses for college work.

The two wing buildings once used for dormitories have been transformed into recitation rooms and laboratories. During the year all the work in the west wing

including the electrical plant, has been transferred to the new Administration Building.

The chapel building in the rear of the central building is to be occupied for library purposes. In the second story are society halls with committee rooms attached.

The new Administration Hall now completed is one of the finest college buildings in southeastern Ohio. It is a T-shaped structure, four stories high including basement, and measures 156 feet in length by 131 in depth. Within is an auditorium, with gallery, furnishing seating capacity for about nine hundred people. It contains a president's office, nine recitation rooms with professors' offices attached, the laboratories of the Department of Physics, a trustees' and secretary's office, a large music hall, art rooms, a gymnasium in the basement with three thousand square feet of floor. The methods of heating and arrangement of detail are modern and well adapted to educational work.

LADIES' HALL.

This is located nearly opposite the north entrance of the campus. It is a fine, commodious brick structure, heated by steam, where beautiful rooms are occupied by lady teachers and students. Excellent boarding can be had at moderate cost in the Hall. Ladies who prefer find suitable homes in town.

LIBRARY AND READING ROOM.

In the study of Literature and History, the most important aid, in addition to a good teacher, is a

large stock of well selected books. In this respect the O. U. is liberally provided. The college and society libraries contain about 15,000 volumes, a large part of which are of recent purchase. In addition to the books of a general character, the private libraries of the professors, which contain works of a more special character to the number of several thousand, are also accessible under certain limitations to the students. The reading room furnishes access to the latest contributions to all topics under current discussion. Some of the larger works are not only useful for reference, but also for purposes of original investigation.

It is the special aim of the managers of the Library to acquire as rapidly as issued all the leading works bearing on Pedagogy whether in German, French or English. A large number of works on this topic and the history of education is already on hand. The Library is so managed as to be accessible every day. The reading room, in which are placed most of the reference books and all the periodicals, is accessible at all times. The reading of well chosen books not only tells the student what others have thought in every department of knowledge, but likewise stimulates him to think for himself. A good library is of itself a university.

APPARATUS AND CABINET.

The departments of Mathematics, Astronomy, Physics, Chemistry and Biology are well equipped with valuable apparatus, which is put at the personal disposal of the student. These subjects are illustrated upon the lecture table, but it is insisted upon that a

student really enters upon possession of his knowledge only when he has acquired skill in carrying on laboratory experiments by himself under the supervision of the professor.

The large Biological Laboratory has been fitted up with appliances suitable for pursuing extensive courses of study in the various departments of Biology, the selections being made with a view to furnishing each student with such apparatus, reagents, etc., as are necessary for independent work. To this end over twenty microscopes have been provided and many duplicates of other appliances are at hand. Excellent histological apparatus is in use for freezing and sectioning, and the laboratory is also well equipped for embryological and bacteriological work.

In the department of Physics, besides balances, specific gravity apparatus, pulleys, centrifugal devices, pumps, barometers, manometers, pendulums, and a great deal of other apparatus for the demonstration of the principles and laws of mechanics, etc., there are: a set of mounted tuning forks for bows, a complete set of electromagnetic forks of various pitches, sonometer, siren, pipes, etc., for work in sound; lenses, prisms, mirrors, polariscopes, spectroscope, spectrometer, diffraction gratings, projecting lantern, cameras, etc., for light; radiometers, thermometers, calorimeters and other apparatus for heat; and a very good equipment of dynamos, motors, calibrating and measuring instruments, resistances, galvanometers, condensers, magnetometers, induction coils, batteries. Wheatstone bridges, various forms of reversing switches and keys, electrometers, standard cells, electrodynamos and a great deal of other apparatus suited to the general demonstration

of the subject of electricity and magnetism, and to the requirements of the electrical course outlined elsewhere in this catalogue.

The chemical laboratory is equipped for work by the students in general chemistry, qualitative and quantitative analysis, and organic chemistry. The work tables for students are supplied with water and gas. Hoods are provided for experiments upon the noxious gases. A still is set up for the continuous production of distilled water. The apparatus required by the student for the laboratory work is loaned to him and payment required at the end of the term, only for what is missing or has been broken.

A fine set of surveying instruments of the most approved kind has recently been purchased for the students in field work. The cabinet affords important aid in the study of Mineralogy and Geology. But we are greatly in need of further contributions thereto, and to this end the assistance of the friends of the institution is greatly desired and earnestly solicited.

MAPS AND CHARTS.

An excellent set of maps, chiefly those of Kiepert, intended to illustrate the physical features and political changes of the historical countries of Europe and the East has lately been added to the equipment of the institution. These in addition to those already on hand, afford an important and well-nigh indispensable aid to the study of history and geography. The outfit in this regard is believed to be usually complete.

ADMISSION AND DISCIPLINE.

Entering the University will be considered a pledge to obey its rules and regulations. These are

few and simple, appealing to the student's self-respect and sense of personal responsibility. Persons of known bad character or of lazy habits are not wanted and will not be retained unless they show a decided desire to reform. Students from other colleges must present certificates of honorable dismissal.

Candidates for advanced standing are, in all cases, examined to ascertain their thoroughness and proficiency; but certificates from other institutions will be accepted for the amount of work done in the different departments.

In exceptional cases students are admitted to classes for a week on trial, without examination, provided the professors in charge are reasonably certain that they can maintain their standing.

Ladies are admitted to all departments of the University on the same terms and under the same conditions as those prescribed for young men.

A record is made of the daily work of each student. When the standing of the student, as shown by this record and examination, falls below an average grade of 70 per cent., he must review the study. A record is also kept of each student's deportment. A low standing of either record is followed by private admonition, and notice is given to the parent or guardian.

Whenever the conduct of a student is such as to indicate that he is unfit to be a member of the University, either because of immorality or because of habitual neglect of his college duties, he will be dismissed. But, in the latter case, his parents will first be requested to withdraw him, and if not withdrawn within a reasonable time, he will be dismissed.

Stress is laid upon the fact that no young man or woman need hesitate to enter the Ohio University for lack of means, or because of inadequate preparation. The surest guaranty of success is an honest and determined effort to succeed. If the student has learned nothing more during the years spent in college than how to study, and how to investigate any subject of which he takes hold, no matter how meager his knowledge may be at the start, he will be able to enlarge it with astonishing rapidity. His time thus spent, whether it be measured by terms or years, will have been wisely employed. Our age is sadly in need of men and women who have such a preparatory training for life's duties.

RELIGIOUS INFLUENCE.

Students are required to be present at prayers in the chapel every morning, unless excused by the Faculty, and to attend public worship on the Sabbath; but the choice of the place of attendance is left with the student or his parents. A students' prayer meeting is held once a week, at which attendance is optional. The University is not sectarian, and no effort is made to inculcate the doctrines of any particular creed or denomination; but the utmost care is taken to promote sound and healthy religious sentiments. We feel sure that nowhere do these matters receive more careful attention.

The founder of the Ohio University believed that "religion, morality and knowledge are necessary to good government and the happiness of mankind;" and it has been the steady purpose of those to whom has been entrusted the duty of carrying out his plans to

insist on the intimate relation existing between the three. The good man, the good citizen is not he who is best informed, but he who is constantly inspired with the thought that his knowledge should be used for the good of his fellow-men. Knowledge without virtue is a curse and not a blessing. It is the constant policy of both Trustees and Faculty to inspire students with the love of knowledge, and with desire to practice religion and morality. Accordingly only those persons are invited to profit by the means of instruction here placed within their reach, who are willing to conform their conduct as far as possible to the teachings of the Bible. We expect students who have spent some time with us to depart not only wiser but also better than they came. If such is not the case it will not be for want of care on the part of the Faculty.

YOUNG PEOPLE'S CHRISTIAN ASSOCIATIONS.

Both the Y. M. C. A. and the Y. W. C. A. have flourishing organizations connected with the Ohio University, and a large proportion of the students are members of one or the other. These hold meetings weekly or oftener, provide lectures on religious or Biblical topics, and take an active interest in promoting the spiritual, moral and intellectual welfare of the entire student body. The management of the University is in hearty sympathy with these organizations and does all that is possible to aid them in their work. The Y. M. C. A. especially, is one of the most vigorous among the colleges of the state.

FEES.

There is no charge for tuition in any of the regular preparatory or collegiate classes. But all stu-

dents pay a registration fee of three dollars per term. Besides this, instruction in the following branches is to be regarded as extra and must be paid for as follows:

Piano lessons or voice culture, per term, two lessons per week.....	\$10.00
Use of piano one hour per day, per term.....	3.00
Bookkeeping and allied branches per term.....	5.00
Stenography and typewriting.....	5.00

The regular fee in chemistry and electrical engineering is one dollar per term to cover the cost of materials used. To this should be added a small charge for breakage—to careful students usually not more than a few cents. After the second term in chemistry the regular fee is two dollars per term.

Those students who wish to pursue studies privately in the college departments for which they desire to have credit toward the attainment of a degree, will be required to pass an examination on each branch, and for this examination an extra fee of \$5 will be charged, which may, however, be remitted by a vote of the Faculty.

All fees must be paid within the first thirty days of the term. No exception can be made to this regulation. The registration fee must be paid when the student enters.

EXPENSES.

Board can be obtained within a reasonable distance of the University at \$2.75 per week. By forming clubs, students may board at \$1.75 per week. Those students whose circumstances require it, are

allowed to board themselves, by which means their expenses may be still further reduced; but this plan is not recommended, because likely to be prejudicial to health.

The actual cost of an education at the University will depend very much upon the disposition and habits of the students. The necessary cost is very low—as low as that of any institution affording equal advantages. It is earnestly recommended to parents not to furnish their sons or daughters with extravagant means. The scholarship and character of a student are often injured by a free indulgence in the use of money. Whatever is beyond a reasonable supply exposes him to numerous temptations and endangers his success and respectability.

As persons frequently wish to know as near as may be, the cost of a student for one year at the Ohio University, the following estimates are here given:

LOWEST.	HIGHEST.
Registration fee.....\$ 9.00	Registration fee.... . \$ 9.00
Board in clubs..... 70.00	Board in private family ... 150.00
Room..... 30.00	Room 40.00
Books..... 11.00	Books..... 20.00
<u>\$120.00</u>	<u>\$219.00</u>

This estimate is for three terms or forty weeks, and includes all necessary expenses except washing, and a small fee for membership in the literary societies. The additional charges for students who take electives in chemistry and for the special class in electricity are elsewhere noted.

METHODS OF INSTRUCTION.

Instruction is given both by recitation and lecture. The constant aim in both is to awaken interest

in study, to aid in the acquisition of knowledge, and to develop the powers of thought and communication.

Some subjects can be better treated in lectures than others. The knowledge the student has of a subject is likewise a factor that is taken into account. The lecture method is generally better adapted to advanced students than to those who are still in the elements. After the elementary principles have been thoroughly mastered from the text-book, supplemented with such elucidations as seem to be called for, the student is generally prepared to profit by the lectures of the teacher, and to grasp the wider outlook that is the result of a knowledge of a subject rather than of the contents of any single book, or even of several books. In the observational studies the learner is, as far as possible, brought face to face with the objects themselves under consideration. The classes in Botany and Geology make excursions into the surrounding country for the purpose of collecting specimens and deriving scientific knowledge from original sources. The classes in Surveying and Mensuration have practice in the use of instruments in field work.

COURSES OF STUDY.

Such courses of study have been adopted as experience has proved to be best adapted to the purpose of liberal education. The classical course, in fullness and matter, will compare favorably with that of the best institutions. The philosophical course is so arranged as to meet the wants of those who may prefer to study modern languages and English branches instead of Greek, for which French, German

and English are substituted. In the scientific, prominence is given to mathematics and the physical sciences.

The pedagogical course is intended to fit young people for the profession of teaching. A fuller statement of its aims and methods will be found in another part of this catalogue.

Those who are able to attend for a short time only, may take a select course, provided the studies they wish to pursue are such as they are qualified to enter upon with advantage. But no student will take a study to which he has not been assigned, or discontinue a study, without permission obtained from the Faculty.

ELECTIVES.

Each student in a regular course will be required to take at least fifteen class exercises per week, and no student will be permitted to take more than seventeen, except on permission of the Faculty. This permission will be given only on the written request of the student. Students in any one of the courses can select subjects in any one of the others below the class to which they are assigned, but not above, except on approval of the Faculty, who must be convinced that they have had sufficient preliminary training to pursue the elected study with advantage. As will be seen, about half the subjects after the Freshman year are elective. But in addition to these a large number of others are offered for the benefit of those persons who wish to specialize still further along particular lines. It needs to be noted however, that they are not offered unconditionally. Regard

will be had to the time at the disposal of the teachers and to the number of students taking any particular elective, as well as to their preliminary training. In all cases where a student's knowledge of English is defective he must pursue this branch until his deficiencies are made up.

During the past few years a number of students, both undergraduate and post graduate, have pursued advanced studies on special lines. With the recent increase in the number of the Faculty a large number of students can be accommodated and in a larger number of branches.

DEGREES.

The Bachelor's degree is conferred upon students who have completed any one of the four courses laid down in another part of this catalogue. The fee for diploma is five dollars.

The Master's degree will be conferred upon graduates of this or any other college who give evidence to the Faculty that they possess such literary and scientific attainment as will make them worthy recipients of it, without reference to the time elapsed since graduation. The fee for this degree is ten dollars.

No degree will be conferred until all dues are paid.

The degree of Doctor of Philosophy will be awarded only to students who have done post-graduate work in residence.

THE EMERSON PRIZE POEM FUND.

The late W. D. Emerson, of the class of '33, bequeathed to the Trustees of the University the sum of

one thousand dollars, the interest on which is to be awarded every second year to the student or graduate of the institution who shall write the best original poem. As at present invested it yields an annual revenue of \$65. The first award was made in 1893 to Miss Carrie Schwefel. The second award under the bequest was made in 1895. The prize was divided between Miss Esther Burns and Mr. John H. Atkinson. The judges were Mrs. Annie Fields, Mr. Maurice Thompson, and Mr. E. C. Stedman. The third, to Miss Virginia M. Houston, the judges being Mrs. Margaret E. Sangster, Mr. W. D. Howells, and Mr. Clinton Scollard. The thanks of the University authorities are due and are herewith tendered to these distinguished writers for the care with which they examined the verses submitted to them as well as for the interest they took in the competition.

LITERARY SOCIETIES.

There are two literary and two debating societies in the University. The Athenian and the Philomathean literary societies occupy well-equipped halls in the former chapel building. The members have opportunity to exercise themselves in declamation, composition, and oratory, and to become familiar with the modes of conducting business in deliberative assemblies. The Ewing Debating Club aims to afford such young men as have attained some skill in debate, opportunities for extended practice and for meeting debaters from other colleges. The Hypatia Debating Club is maintained exclusively by the young women of the college.

Detailed Statement
OF THE
Departments of Instruction.

GREEK.

PROFESSOR SUPER.

ASSOCIATE PROFESSOR DUNKLE.

It is the aim of this department not only to teach students to read the authors commonly read in colleges, but also to make them acquainted as far as possible with the literature and life of the ancient Greeks. In teaching the language, especially that of Homer, constant attention is called to the words related to other languages, particularly Latin, German and English; and the laws of consonantal mutation are explained. Especial prominence is given, as the student progresses, to the following points: First, form; second, vocabulary; third, relation to cognate languages; fourth, literature and history. The ear is regarded as equally important with the eye in the interpretation of words. When possible, some entire work of an author is read, as it is

thought a more lasting and more satisfactory impression will thus be made upon the mind of the student than by the use of selections only.

It is a well established principle in the study and teaching of the ancient languages that they should be made, as far as possible, the basis of a study of antique life. The Greek language embodies the experience of the most remarkable people of antiquity—a people whose achievements in literature, in the arts, and in government have been, and doubtless will continue to be, inexhaustible sources of profitable instruction. It is here claimed that a study of the Greek language, together with all that should properly be taken in connection therewith, will contribute the most important element of a liberal education.

Before admission to the college class in this department, the student must be fairly familiar with the Greek Grammar and have read four books of the Anabasis and four books of Homer's Iliad.

The Freshmen read about seventy-five pages of Herodotus in Goodwin's Greek Reader; nearly the same number of pages in Winans' edition of Xenophon's Memorabilia; and the Apology and Krito of Plato entire. The work for the Sophomore year is usually a tragedy, a comedy and Demosthenes' De Corona. During the present year the class read the Antigone of Sophocles, five books of the Odyssey, eight orations of Lysias, and Smith's History of Greece. More important, however, than the amount of text perfunctorily read, is a knowledge of the Greek language and a true conception of the life of Greek antiquity.

Works of reference: Hadley's and Goodwin's

Greek Grammars, Goodwin's Greek Moods and Tenses, Liddell & Scott's Greek Lexicon, Anthon's and Smith's Classical Dictionaries, Autenrieth's Homeric Dictionary, Ginn & Heath's Classical Atlas.

ELECTIVES.—Students who wish to pursue the study of Greek beyond the regular course can be accommodated with three exercises per week for three terms, the subjects to be studied, or the authors to be read, to be selected by the professor. The following is the general program: As the Freshman year is devoted to a review of the Syntax, the Accidence of the Greek language in general, the student is prepared to take up the study of masterpieces, either in oratory, philosophy or poetry, with special reference to the characteristics of each. With these ends in view, one or more terms may be given to one or more of the Attic orators, to one longer and two shorter Platonic dialogues, or to some of the principal dramas. One elective term in Greek History is offered, and one in Comparative Philology.

LATIN.

PROFESSOR EVANS.

ASSOCIATE PROFESSOR CONAWAY.

For entrance into the Freshman class, students must complete the Preparatory Latin Course as laid down elsewhere in this catalogue or an equivalent.

During the first part of the Freshman year attention is directed to Latin Rhetoric as exemplified in the works of Cicero and Livy. During the latter part of

the year, the class reads the Odes of Horace and studies Roman History. Throughout the whole year there are frequent exercises in sight reading and in turning into the original English renderings of Cæsar, Eutropius, and Nepos

In the whole work the endeavor is to impress on the minds of the students, that Latin is the language of a moral and practical people who left their mark on the world in law and government, and that "Rome is the center of our studies and the goal of our thoughts; the point to which all paths lead, and from which all paths start again."

Hand-books: Allen and Greenough's or Harkness' Grammar; Allen's Roman History; Harper's Lexicon, Kiepert's wall maps of the Roman Empire and of various countries; Ginn & Co.'s Classical Atlases; Gow's "Companion;" Smith's Dictionary of Classical Biography; and Smith and Seifert's (Nettleship and Sandys') Dictionaries are freely accessible to students for reference in their work.

ELECTIVES: Each year one of the following courses is offered to students who desire to continue the study of the Roman people beyond the course that is required.

1. *Latin:*

Terence, Cicero, Lucretius, Horace, Juvenal, Tacitus, Paterculus, and Quintilian are studied according to the tendency or the choice of the class.

The students have access also to Simcox's, Teuffel-Schwabe's (Warr's translation), and Browne's Histories of Latin Literature, and to Guhl and Koner's Life of the Greeks and Romans.

2. *Roman History:*

A whole year is given to the study of the military and political history of Rome, special attention being directed to the causes of the struggles between the Patricians and Plebeians, and between Rome and Carthage; and to those which made Rome the conqueror of the world, as well as to the causes which led to the decline of the Republic.

Books for study and reference: Epochs of Ancient History; Lanciani's Ancient Rome in the Light of Recent Excavations; The Great Captains—Hannibal—by Dodge; Duruy's and Mommsen's Histories of Rome; Long's Decline of the Roman Republic; and Labberton's Historical Atlas.

3. *The Roman Constitution and Outlines of Roman Law:*

This course is of interest to students who look forward to the study of law, as a study of Roman law helps one to get a clear idea of the fundamental conceptions of Jurisprudence. The study of the development of the Roman constitution and laws will help to understand how all constitutions and laws grow. In the last two courses described, students are required to consult Roman authors in addition to the authors already mentioned.

When students desire it, classes are organized to study the Vulgate Version of the Scriptures, Latin Hymns of the church, the writings of the Latin writers of church history, and other works in Patristic Latin.

MATHEMATICS AND ASTRONOMY.

PROFESSOR HOOVER, ASSISTED BY ONE OR MORE TUTORS.

The course in pure Mathematics embraces nine terms, distributed as follows: Algebra, three terms;

Geometry, two terms; Trigonometry and Surveying, two terms; Analytic Geometry, one term; Calculus, one term. Of these, three terms, including Algebra to Series and Plane Geometry, are required for admission into the Freshman class; the remaining six terms are included in the College Department, covering the Freshman and Sophomore years.

See also courses of study and electives.

In teaching the pure Mathematics, especial attention is directed to the value of the study as a means of training the logical faculties. Constant stress is laid upon the steps of reasoning which underlie the various processes; and it is insisted that the principal business of the college student of Mathematics is to apprehend these clearly.

Power to apply the principles is tested by a wide range of exercises drawn from various sources, and adapted to the capacity of the student.

A part of the Spring Term in the Freshman year is devoted to the subject of land surveying and to other applications of Trigonometry. This work is important as giving good examples of the utility of mathematical science and its practical applications. The department is in possession of an excellent set of surveying instruments, including a transit, level, rod, and other necessary appurtenances. These are in frequent use by the students.

ELECTIVES. In this department the following electives are offered: Theory of Equations; Analytic Geometry of Three Dimensions; Differential Equations; Statics and Dynamics; Elliptic Functions; Spherical Harmonics; Quaternions; Determinants; Mathematical Optics; Least Squares; and Astronomy

RHETORIC AND ENGLISH LITERATURE.

PROFESSOR BOUGHTON.

INSTRUCTOR, MR. WILSON.

The work of this department is intended to accomplish two objects: first, to cultivate the art of expression; second, to give the student a practical knowledge of English and American authors.

Preparatory to college English, the student must have a thorough knowledge of Grammar, and must have completed the following six terms' work or an equivalent:

FIRST TERM. Waddy's Elements of Composition and Rhetoric and Genung's Practical Rhetoric to Invention.

SECOND TERM. American Literature—Painter's Introduction to American Literature to page 164; Selections from Colonial and Revolutionary writers; Masterpieces from Franklin, Irving, Cooper, Bryant and Poe.

THIRD TERM. American Literature continued—Painter completed; Masterpieces from Hawthorne, Lowell, Emerson, Longfellow, and Holmes; Essays and Discussions.

FOURTH TERM. British Literature—Pancoast's Introduction to English Literature to part IV; Masterpieces from Shakspeare, Milton, Pope, Addison, and Steele.

FIFTH TERM. British Literature continued—Pancoast completed; Masterpieces from Dryden, Johnson, Goldsmith, Burke. Wordsworth, Coleridge, Burns, De Quincey, Macaulay, Tennyson, Carlyle, and George Eliot; Essays and Discussions.

SIXTH TERM. Genung's Practical Rhetoric completed.

THE AMOUNT OF COLLEGE ENGLISH REQUIRED FOR GRADUATION.

For the B. S. degree, 60 hours' credit.

For the A. B. or B. Ph. degrees, 108 hours' credit.

For the B. Ped. degree, 160 hours' credit.

COURSE I—A STUDY OF POETRY.

(Three recitations per week.)

FIRST TERM. A study of Tennyson; Lectures on English Versification; Exercises in Metrical Composition. Required for all degrees.

SECOND TERM. A Study of Lowell's Poetry; Lectures on English Versification; Exercises in Metrical Composition.

THIRD TERM. Palgrave's Golden Treasury of Songs and Lyrics (second series); Lectures on English Versification; Exercises in Metrical Composition.

The last two terms are elective, but either term may be taken as the required work of this course.

COUSE II—STUDIES IN CRITICISM.

(Four recitations per week.)

This course is designed for those who have completed one or more terms of Course I, but it may be pursued parallel with that course.

FIRST TERM. Shakspere—Merchant of Venice, Richard III, Macbeth, Julius Cæsar, King Lear, Troilus and Cressida; Moulton's Shakespeare as a Dramatic Artist, pp. 43-224. Required for all degrees.

SECOND TERM. Shakspeare—Othello, The Tempest, As You Like It, Love's Labours Lost, and Coriolanus; Moulton's Shakespeare as a Dramatic Artist, pp. 225-312. This may be taken as required work instead of the First Term, otherwise it is an elective.

THIRD TERM. Criticism--Moulton's Criticism as an Inductive Science applied to The Scarlet Letter, The Princess, and The Prisoner of Zenda. This term's work is elective for all students, but must be preceded by the first or the second term of this course.

COURSE III—COLLEGE RHETORIC.

(Three recitations per week.)

This course is designed for those who have completed the third term of Course II. It is elective for all such students.

FIRST TERM. A Study of Style—Essays by Spencer, Pater, De Quincey, Hunt, Matthews, Earle, and Stevenson; Lewes' Principles of Success in Literature; Essays and Stories.

SECOND TERM. Sherman's Analytics of Literature, Exercises in Prose and Verse.

THIRD TERM. Orations—A course designed to assist those who are preparing for contest.

COURSE IV—HISTORY OF ENGLISH LITERATURE.

(Four recitations per week.)

FIRST TERM. The Age of Elizabeth—Saintsbury's History of Elizabethan Literature; Two Books of the Faerie Queen; Thayer's Best Elizabethan Plays, or an equivalent; Essays and Discussions, Elective for all students who have completed one term of Course II.

SECOND TERM. XVIIIth Century—Gosse's Eighteenth Century Literature; Readings from Dryden, Addison, Johnson, Goldsmith, and Burke; Essays and Discussions.

Required for the B. Ped. degree, but elective for all other students who have completed one term of Course II.

THIRD TERM. XIXth Century—Saintsbury's History of Nineteenth-Century Literature; Essays and Discussions.

Required of all students except those who are candidates for the B. S. degree. One term of Course II must precede this work.

COURSE V—SENIOR WORK.

(Three recitations per week.)

This course is elective for those who have completed the required work in this department.

FIRST TERM. Browning.

SECOND TERM. English Prose from Elizabeth to Victoria.

THIRD TERM. Palgrave's Golden Treasury of Songs and Lyrics. (First Series).

EUROPEAN HISTORY.

ASSOCIATE PROFESSOR H. M. CONAWAY.

COURSE I, Sophomore; the fall and spring terms of this course are required; 3 hours per week.

FALL TERM.

The Absolutism of the 17th Century.

Text Book—Wakeman's.

Ascendancy of France.

WINTER TERM.

The French Revolution and the Napoleonic Era.
Text Book—Mignet's French Revolution.

SPRING TERM.

The Nineteenth Century.

COURSE II; open to those who have taken Course I;
3 hours.

FALL TERM.

The Middle Ages and the Renaissance; a study of the growth of the Papal Power, of the Crusades, of the conflict between the Empire and the Papacy, and of the Revival of Learning.

Books of Reference: Symonds' Renaissance in Italy, 7 vols.; Burckhardt's Renaissance; Henderson's Germany in the Middle Ages; Pool's Illustrations of the History of Medieval Thought; Pastor's History of the Popes; Lea's History of the Inquisition; Lea's Superstition and Force.

WINTER TERM.

The Reformation.

Books of Reference: Hausser's History of the Reformation; Beard's Reformation; translations of the works of Luther, Erasmus, Calvin, etc.; Ranke's History of the Popes; Baird's Rise of the Huguenots, The Huguenots and Henry of Navarre; Motley's Rise of the Dutch Republic.

SPRING TERM OF 1899.

English History in the 16th and 17th centuries.

Books of Reference: Seeley's Expansion of England; Seeley's Growth of the British Policy; Gardiner's Histories (covering the period of the early Stuarts, the Commonwealth, and the Protectorate.)

SPRING TERM OF 1900.

A Critical Study of the French Revolution.

Books of Reference: Morley's Voltaire, Rousseau, Diderot; DeTocqueville's Ancient Regime; Taine's Ancient Regime and French Revolution; Stephens' French Revolution; W. W. Stephens' Turgot; The Life of Napoleon, by Sloane, by Lanfrey, and by Fournier.

In this course considerable use is made of the valuable reprint issued by the University of Pennsylvania, and if the student has time and preparation, he will have opportunity to consult the Latin, German, and French sources.

COURSE III.—Spring term, Sophomore, 3 hours, Seeley's Introduction to Political Science.

COURSE IV.—Fall term, Senior, 2 hours, Bagehot's English Constitution.

Winter term 4 hours, Burgess's Political Science

Spring term, 3 hours, The History of Political Theories; an examination of the political theories of Aristotle, Machiavelli, Bodin, Hobbes, Locke, Filmer, etc.

COURSE V.—French Historical Readings, 2 hours.

Fall term, Taine's Ancien Regime.

Winter term, Mignet's Histoire de la Revolution francaise, t., I.

Spring term, Mignet's Histoire de la Rev. fr., t., II.

UNITED STATES HISTORY AND POLITICAL ECONOMY.

ASSOCIATE PROFESSOR B. O. HIGLEY.

The importance of the study of United States History in preparing citizens to exercise the duties incumbent upon them as members of the body politic is growing more apparent every year. Therefore the aim of the teaching in this department is so to read the history of the past as to throw light upon present civic and economic problems, and thus aid in their solution. The disciplinary value of the subjects included in this department is kept constantly in view. History is regarded as a record of the social, economic, moral, and political life of the people. Environment, former ideas, and changing industrial conditions are all considered as important factors in determining the course of events. The work of our great leaders in thought and action is studied carefully in connection with the history of the people. Students are encouraged to investigate the civic and economic questions of the present day with minds as free as possible from partisan prejudice and preconceived opinions.

The standard books in Civics and Economics are studied, and the views therein expressed are freely discussed in the class-room. Government publications, magazine articles, and other valuable material are read for the purpose of obtaining all the light possible upon the subject under discussion as well as to broaden the mental vision of the student. The work for the year 1898 and 1899 is as follows:

PREPARATORY UNITED STATES HISTORY.—REQUIRED.

FIRST YEAR.—Fall term, History of United States, 3 hours per week.

Winter term, History of United States, 4 hours per week.

Spring term, Civil Government, 5 hours a week.

COLLEGIATE HISTORY.—ELECTIVE.

Fall term, The Colonial Period and the Formation of the Union, 3 hours.

Winter term, The Period of Slavery Agitation, 4 hours.

Spring term, The Civil War and the Reconstructed Nation, 3 hours.

The Epochs of American History will be used as guides in the study of the above courses.

SPECIAL ELECTIVES.

Fall term, History and Study of United States Constitution, 3 hours; Territorial Expansion of the United States, 2 hours; Coinage Legislation since 1789 in the United States, 3 hours.

Winter term, A Comparative Study of State Constitutions, 3 hours; Economic and Political Effects of Immigration, 2 hours; Important Tariff Laws of the United States, 2 hours.

Spring term, The History of Political Parties in the United States, 3 hours; The Spoils System and Civil Service Reform, 2 hours; Money and Banking, 3 hours.

In the Special Electives, the Madison Papers,

The Federalist, Poore's Constitutions and Charters, American State Papers, Reports of Directors of the United States Mint, the Congressional Globe and Record will be used in connection with the standard histories. The volumes of Bancroft, Rhodes, Von Holst, Schouler, Pitkin, and the American Statesman series are constantly at hand for reference. Hamilton's, Jefferson's, Adams's, Clay's, and Calhoun's Works are always accessible and often used.

For further particulars see "Course of Study."

POLITICAL ECONOMY.

Fall term, The Elements of Political Economy, Part I, 3 hours.

Winter term, The Elements of Political Economy, Part II, 3 hours.

The work outlined above is required in the Collegiate Department. Laughlin's book will probably be the text used. The fundamental principles of the subject will be studied in the first term, followed in the second term by their practical application to the questions of to-day.

ELECTIVE POLITICAL ECONOMY.

Fall term, The History of Political Economy, 3 hours.

Winter term, Economics, 3 hours.

Spring term, Co-operation and Profit Sharing, 3 hours.

The works of Adam Smith, Ricardo, Malthus John Stuart Mill, Roscher, and others will be examined in the first term. Hadley's Economics will serve

as a text-book in the winter term. F. A. Walker's Political Economy and Marshall's Principles of Economics will be used as references. Some phase of the Labor Question will be studied in the third term. Co-operation and Profit Sharing will be the subject investigated in '99, unless the class prefer to take up some other question.

MODERN LANGUAGES.

KATE CRANZ, ASSOCIATE PROFESSOR.

GERMAN.

The entire course offered in German covers a period of four years. The first two years are required of all students in the Philosophical and Scientific Courses. Two courses are offered as electives—a year of critical reading with conversation, and a year of composition with conversation. Only one course is offered each year, the courses alternating. The course in composition and conversation will be offered in 1898-99.

PREPARATORY GERMAN.

First term, Grammar with Written Exercises, 5 hours per week.

Second term, Grammar, 2 hours per week; Translation, 3 hours per week.

Third term, Translation, 5 hours per week.

COLLEGIATE GERMAN.

First term, Narrative prose, 4 hours per week.

Second term, Narrative prose, 4 hours per week.

Third term, Selections from Lessing, 4 hours per week.

ELECTIVE GERMAN.

1. A study of Scheffels' Ekkehard and Gœthe's Faust, 2 hours per week throughout the year; Conversation, 2 hours per week throughout the year.

2. Composition, 2 hours per week throughout the year; Conversation; 2 hours per week throughout the year.

The course in Conversation is open to all students who have finished the first two terms.

FRENCH.

The course in French is required of all students in the Philosophical and Scientific Courses.

First term, Grammar and written exercises, 4 hours per week.

Second term, Narrative prose, 4 hours per week.

Third term, Narrative prose, 4 hours per week.

Electives will be offered in this department later.

PSYCHOLOGY AND PEDAGOGY.

ASSOCIATE PROFESSOR BROWN.

FIRST TERM.

1. *Psychology* (required.)

James' Psychology, Briefer Course, three recitations per week.

2. *Psychology* (elective.)

Ladd's Descriptive and Explanatory Psychology, three recitations per week.

3. *Logic* (elective.)

Mill's Logic or Sigwart's Logic, 2 hours per week.

4. *Philosophy* (elective.)

Watson's Selections from Kant, with readings from the critical works of Caird, Watson, and essays in philosophical magazines, two hours per week. This course will not be offered contemporaneously with Course Three, but may be substituted for it at the option of the instructor.

5. *Pedagogy* (elective.)

Fouillee's Education from a National Standpoint, four recitations per week.

SECOND TERM.

6. *Psychology* (required.)

Continuation of Course 1.

7. *Logic* (required.)

Jevons' Lessons in Logic, four recitations per week.

8. *Psychology* (elective.)

Continuation of Course 2.

9, 10. *Logic or Philosophy.*

Continuation of one of the alternative courses, 3 or 4, above.

11. *Pedagogy* (required for Pedagogical Degree.)

History of Education, Davidson's Greek Education, four recitations per week.

THIRD TERM.

12. *Pedagogy* (required for Pedagogical Degree.)

History of Education, Paulsen's German Univer-

sities and Fitch's Thomas and Matthew Arnold, four recitations per week.

13. *Pedagogy* (required as above.)

Science of Education, Laurie's Institutes of Education, four recitations per week.

14. *Introduction to Philosophy* (elective.)

James' Will to Believe and other essays, three recitations per week.

15. *Logic or Philosophy* (elective.)

Sigwart's Logic or Bradley's Appearance and Reality, three recitations per week.

BIOLOGY AND GEOLOGY.

PROFESSOR CHAPIN.

INSTRUCTOR MR. CHARLES BROOKOVER.

This department embraces all the subjects properly belonging to Biology, together with Inorganic and Organic Geology.

The work in Zoology begins with the second year of the preparatory course, and the subject being assigned to the fall term, abundant opportunity is offered for field work. In addition to the material gathered by the members of the class, use is made of preserved marine types which are received from time to time for the purpose of dissection. Each student is required, also, to spend some time in the Zoological Museum, which contains many valuable specimens.

The student enters the laboratory at the very start, and such types are placed before him for exam-

ination and dissection as will lead him, step by step, to correct habits of observation, by which he is enabled to comprehend the close relations of one form of life to another. As this work is in progress, the subjects under examination are freely discussed, and, on the completion of each dissection, the student is examined upon the work done. Drawings are required of the different parts and organs, in all cases. After a few types have been studied in the laboratory, the subject of classification receives careful attention, according to the plan followed in Chapin & Rettger's *Elementary Zoology and Laboratory Guide*. An advanced course in Zoology is offered in the college proper, and a scholarship has been established which insures free tuition and laboratory privileges at the Marine Biological Laboratory, Cold Spring Harbor, Long Island, to the student in this department doing the highest grade of work. The importance of the advantages thus secured can not be overestimated, as the student is given abundant opportunity to study marine life amidst its proper environments. He will, to this end, be expected to assist frequently in dredging, for which a naphtha launch is provided.

The course in Preparatory Physiology aims to give a good general knowledge of Anatomy and Hygiene, and the functions of the different organs. Occasional dissections are performed before the class, and some laboratory work is required of all. In the collegiate course this subject is studied by more advanced methods. Osteology receives close attention, and each student is expected to give some attention to dissection, besides making a practical study of a few histological structures. Physiological principles and theories are discussed according to the latest in-

vestigations; and, in this connection, experiments are performed in the laboratory. The department is supplied with a valuable skeleton and superb French anatomical models. (For more advanced work in Anatomy and Physiology, see Preparatory Medical Course.)

Elementary Botany is required in all the Preparatory Courses except the classical. Work begins with an observational study of germinating plantlets, all students being required to sow the seeds of several representative plants and to make careful drawings of the different stages of growth. Leaves, roots and stems are studied from the objects as far as practicable, and careful dissections of certain typical flowers precede the regular work of Systematic Botany. As time permits, the student is given some insight into the microscopic structure of plants by practical work in the laboratory. An herbarium of not less than forty plants will be required of all, or an equivalent in laboratory work. In the collegiate course the student is set to work at once with the microscope, the object being to secure a knowledge from actual observation of the general anatomy and physiology of plants. This is followed by work upon the Cryptogams, and all will be encouraged to make some special investigations for themselves.

The University is thoroughly equipped for work in General Biology, a required subject in all the collegiate courses. A biological laboratory has recently been completed and fitted up with modern apparatus, including a steam sterilizer, fine optical appliances, dissecting instruments, water bath, paraffin bath, CO² freezer, etc. The student is given practical training in Microscopy, and is taught the process of staining and how to prepare permanent mountings. It is the

intention to give a thorough knowledge of the structure and mode of growth of typical plant and animal forms, and the laboratory work is accompanied with lectures, in which the composition of organisms, methods of reproduction, development and other biological subjects are discussed.

At an early stage of the work in Geology, such objective study of minerals is pursued as will enable the student to comprehend the composition of rocks, which is next taken up. To supplement the text, lectures may be given from time to time upon dynamical, structural and paleontological Geology, and these subjects are further studied in the field. Work is also offered in determinative Mineralogy. A large cabinet of minerals is open at all times to the student of Geology.

Works of reference: Bessey's Botany, Goodale's Physiological Botany, Gray's Structural Botany, Wolle's Diatomaceæ of N. A., and Desmids of the U. S., Strasburger's Manual of Vegetable Histology, Goebel's Outlines of Classification and Special Morphology, Vine's Physiology of Plants, DeBary's Comparative Anatomy of Phanerogams and Ferns, Huxley and Martin's Biology, Sedgwick and Wilson's Biology, Claus and Sedgwick's Zoology, Packard's Zoology, Hertwig's General Principles of Zoology, Lang's Vergleichenden Anatomie der Wirbellosen Thiere, Landois's Physiology, Foster's Physiology, Stirling's Histology, Piersol's Histology, Shafer's Essentials of Histology, Carpenter's The Microscope, Frey's Microscopical Technology, LeConte's Elements of Geology, Dana's Manual, Dana's Mineralogy, Crosby's Mineralogy, Lyell's Principles of Geology, Geikie's Text Book of Geology, and Government Reports.

PREPARATORY MEDICAL COURSE.

It is desirable in many cases that students looking forward to the medical profession should, after spending four years in collegiate work, be admitted to advanced standing in the medical schools, whereby a year's time may be gained. With this object in view, the department of Biology now offers such work as is, in conjunction with Physics and Chemistry, recognized by the best of these schools the full equivalent of a year's professional study. The departments of Physics and Chemistry furnish abundant opportunities for the work required in that direction. The biological work is, from the very outset, suited to the needs of the medical student. To this end, it properly begins with General Biology, to be followed by a comparative study of animal forms and of phanerogamic and cryptogamic plants. The development of some vertebrate is closely studied, and preparations of embryos are required of each student. Throughout the course, close attention to laboratory work is insisted upon. Practical instruction is given in the preparation of microscopic objects, and the student is taught the technique of section cutting and mounting. A practical knowledge of Human Anatomy is obtained from the careful dissection of some mammal, the many resemblances to the anatomy of man, and the few differences, being continually referred to. Arrangements have been made whereby students of the University are allowed, under certain conditions, to attend post-mortem examinations and to assist in the work. The laboratory is provided with modern apparatus for accurate investigation of disease germs, and the student is therefore required to

do practical work in the all-important subject of Bacteriology.

Upon the completion of this course, the student may receive credit for one year's work in the regular course of study at the Medical College of Ohio, Starling Medical College, Columbus, and other medical schools; and graduates pursuing certain prescribed courses in this department will be admitted into the second year of the four years' course of study in the Medical Department of the University of Pennsylvania and Jefferson Medical College, upon presentation of a certificate signed by the professor in charge.

Among the works of reference to be found in the library may be mentioned Gray's Anatomy, Quain's Anatomy, Holden's Anatomy, Landois and Sterling's Physiology, Foster's Physiology, Foster and Langley's Practical Physiology, Foster and Langley's Embryology, Hertwig-Marks Text-book of Embryology, *Lehrbuch der Vergleichenden Entwicklungsgeschichte* (Korschelt & Heider), Minot's Human Embryology, Wilder and Gage's Anatomical Technology, Wiedersheim's Comparative Anatomy, Sternberg's Bacteriology and standard tests and guides in Histology. The following subjects are comprehended in this course: General Biology, Zoology, Mammalian Anatomy, Human Anatomy, Histology, Physiology, Structural and Systematic Botany, Vegetable Histology, Embryology and Bacteriology.

PHYSICS AND ELECTRICITY.

PROFESSOR ATKINSON.

ASSISTANT, MR. F. H. SUPER.

1. Elementary Physics.

This work is required in the first and second terms of the third preparatory year in all the courses giving a degree. Hall and Bergen's Text Book of Physics will be used as a guide. Recitations three times a week, laboratory work six hours a week.

2. General Physics.

This course is required throughout the Junior year of the Scientific course, and is open as an elective to students in other courses, provided they have the preparation required of students regularly in this course. In all cases a knowledge of Chemistry will be essential, but this may be acquired by entering the course in Chemistry marked in the Sophomore year. No one will be permitted to begin this course until he has completed the course in Mathematics to and including Plane Trigonometry. The instruction is given by means of lectures, with experimental demonstrations and individual laboratory work. As an outline of lecture work, Ames' Theory of Physics will be used, though references to numerous works on Physics, particularly on special subjects in Physics, will be given as supplementary to the text. The laboratory portion of the work will be adapted to the requirements of Junior students and will presuppose the work in Course 1. or its equivalent. Lectures three times a week, laboratory four hours a week.

3. Physical Laboratory.

This will be a special elective course in heat and light, open to those who have already had 1 and 2. Laboratory four hours a week for the first term.

4. Physical Laboratory.

This is elective, and will be open on the same terms as 3. The course consists of exact measurement in electricity and magnetism. A very excellent special laboratory is now used for the work of this course, and the aim is continually to improve the facilities. Nichols, Stewart and Gee, Kempe, Carhart and Patterson, and Ayrton will be used as references. Lectures twice a week. Laboratory six hours a week during the second term.

5. Physical Laboratory.

This is an elective course given in the third term, consisting of a study of dynamo-electric machines to the end of determining and plating their characteristics, efficiency, etc. Lectures twice a week. Laboratory six hours a week.

The fees for laboratory privileges are subject to adjustment.

ELECTRICAL ENGINEERING.

The rapid development of electricity for the purposes of light and power, and its general introduction into all sections of the country, have created a demand for men well qualified in this branch of engineering. The profession now offers excellent opportunities to young men, and the field is so broad that the chances for rapid promotion are very flattering to

those properly qualified. The thoroughly educated man who combines practical experience with his theoretical knowledge of electricity and magnetism is in special demand; for many now engaged in this work are poorly fitted for its duties. The college does not lose sight of the fact that mind training is its chief business. Yet it is the guiding principle of this department that the education of the mind is none the less efficient for making use of the tools for this purpose which may at the same time be applied by the trained mind to earning a livelihood. We hold that, instead of being opposed, these two features are correlative.

The college possesses an excellent incandescent lighting plant, used for lighting the buildings and campus, with the design of extending to the student practical training in the construction, operation, and care of electrical and steam machinery. The plant, though at present not large, is nevertheless modern in all its parts, and meets our present requirements for light and power quite satisfactorily. However, it is the intention soon to put in a very material addition to the equipment in this line. Both direct and alternating currents are used. The switches and fittings on the board, wiring, and general installation, are all the work of students. Modifications and extensions from time to time give others excellent opportunities to obtain valuable practice.

The electrical profession requires a great deal of mechanical ability and training in the use of tools for both wood and metal. The department is provided with shops for both, a large forge and lathe-room having been recently provided in the basement of the new Administration Building as a further addition to our

facilities in this direction. These shops are provided with wood and metal working lathes, and a complement of the necessary small tools. Additions to the shop facilities are being made continually. As will appear from the course outlined below, while mastering the use of tools, the student is taught the construction of useful pieces of apparatus for laboratory purposes. The ability thus to construct apparatus and machinery, to preserve the proper relations of the several parts in fitting them together, and in overcoming difficulties that may arise in embodying one's ideas, has a very great educational value aside from its practical aspect.

Below is indicated the course of study in this department. To this is added, however, seminary work with references to the leading treatises on electricity and engineering. Periodicals, such as the *Electrical Review*, *Electrical Engineer*, *Electrical World*, *Power*, *Scientific American* and *Supplement*, *Electricity and Engineering Magazine*, are kept on file easily accessible, and are included in the seminary references. For the practical plant work each division of those in this course is now on duty one night in each week. Each engineer is required to keep a record of steam pressure and of the current of each machine at regular intervals. There is co-operation also with the city arc-light plant, and an additional night in each week is spent in learning its care and operation under competent supervision. The student in all this work is taught to operate the plant with the object of attaining its highest efficiency, and to study the greatest economy in the use of all supplies for consumption.

Requirements: This work is elective as a whole, and those taking it must pursue the course regularly

in its order unless a portion of it has been previously taken. Hereafter no one will be permitted to begin the theoretical portion of the work until he has passed the first and second terms of algebra as indicated in the second year of the preparatory course, and has completed the three terms of English marked in the preparatory course; this includes two terms of literature and one of Rhetoric. However, those not prepared in these branches may be permitted to take up the practical portion of the course, including plant practice, shop work, free hand and mechanical drawing, while making up this work. The higher branches, including Analytical Geometry, Calculus, and Analytical Mechanics, are strongly recommended to students in Electricity, though not absolutely essential to this course. Physics and Chemistry are required as indicated. When the regular electrical course and the auxiliary studies are completed, a certificate will be issued showing the character of the work, done. Also, where it is deserved, a recommendation will be issued showing the student's ability in theoretical and practical electricity. This course is subject to such changes from time to time as the development of the subject may dictate.

FIRST YEAR.

FIRST TERM.

Physics. Lectures and recitations three times a week. Laboratory work six hours a week.

Problems in Electricity. Calculations of resistance, potential, batteries, work, electro-magnets, dynamos, and motors. Four hours a week.

Shop work. Wood-turning, metal-boring, filing and polishing. Four hours a week with no credit.

Free-hand Drawing. Simple geometric solids, one and two views; outlines of simple geometric solids in perspective. Three hours a week.

Plant Duty. Operation of college incandescent and city arc stations. One night a week each.

Mechanical Drawing. Simple geometric drawing for neatness and accuracy in the use of instruments; lettering; use of scales. Three hours a week.

SECOND TERM.

Physics. Lectures and recitations three times a week. Laboratory work six hours a week.

Steam. General theory of the steam engine; theory and construction of details; dimensions for required power; indicators, theory and use; valve gears. Four hours a week.

Shop work. Metal-turning, bolt-cutting, and tapping. Four hours a week with no credit.

Free-hand Drawing. Outlines and shaded studies of geometric solids, single and grouped; outline and shaded studies of vase forms. Three hours a week.

Plant Duty. Operation and care of college and city stations. One night a week each.

Mechanical Drawing. Descriptive geometry; copying drawings. Three hours a week.

Mathematics. Four hours a week.

THIRD TERM.

Electricity and Magnetism. General elementary theory; principles of construction and operation of dynamo-electric machines. Four hours a week.

Electric Lighting. Lectures and recitations on the principles and methods of wiring for light and

power; rules and regulations; plans and specifications. Four hours a week.

Shop work. Simple pieces of apparatus, binding posts, switches, etc. Four hours a week with no credit.

Plant Duty. Care and operation of college and city stations. One night a week each.

Free-hand Drawing. Three hours a week.

Mechanical Drawing. Copy work from engine and machine drawings. Three hours a week.

Mathematics. Four hours a week.

SECOND YEAR.

FIRST TERM.

Electricity. Lectures with references and recitations upon electrical engineering. Four hours a week.

Electric Railway (or equivalent.) Recitations upon general principles and practical aspects; plans and specifications. Four hours a week.

Shop work. Construction of simple laboratory apparatus. Four hours a week. no credit.

Mechanical Drawing. Working drawings and plans of machinery from actual parts. Three hours a week.

Plant Duty. Care and partial supervision of college and city stations; trimming and testing lamps. One night a week each.

Seminary. Investigation of assigned topics; written reports. One hour each week.

Mathematics or Chemistry. Four hours a week.

SECOND TERM.

Electricity. Alternating and polyphase currents. Four hours a week.

Electricity. Absolute measurements in electricity and magnetism. Lectures two times a week. Laboratory six hours a week.

Shop work. Miscellaneous construction work; design and construction of small motors and dynamos. Four hours a week, no credit.

Mechanical Drawing. Same as preceding term. Three hours a week.

Plant Duty. Same as preceding term.

Seminary. Same as previous term. One hour a week.

Mathematics or Chemistry. Four hours a week.

THIRD TERM.

Electricity. Testing dynamos for characteristics, efficiency, and regulation. Lectures two times a week. Laboratory six hours a week.

Electricity. Electrical transmission of power. Four hours a week.

Shop work. Same as preceding term. Four hours, no credit.

Mechanical Drawing. Same as last term. Three hours a week.

Plant Duty. Same as preceding terms.

Seminary. Same as preceding terms. One hour per week.

Mathematics, or an individual investigation. Four hours a week.

For next year there will be no charge for electrical laboratory, but students will be held responsible for all breakage and damage. The only charge for students in electrical engineering will be one dollar per term in addition to the regular contingent fee of three dollars.

Any one wishing to spend less time than two years will be required to pursue the course regularly so far as he goes. New light is given, and new opportunities appear very often from one year spent in the pursuit of this work. Inquiries concerning the course will receive prompt attention.

CHEMISTRY.

PROFESSOR HENDERSON.

In this department the following courses are offered:

1. Elementary Inorganic Chemistry.

This course extends over two terms and requires no preliminary study of the subject. The instruction consists of lectures, recitations, and laboratory experiments. Each student is assigned a desk in the laboratory, and performs for himself, under the constant direction of the instructor, the experiments described in the text. Many additional experiments of a more difficult kind are performed by the instructor upon the lecture table.

The aim throughout the course is to bring before the student such facts and phenomena as will enable him clearly to understand the fundamental laws of chemical science. Attention is also directed to the practical application of chemistry in the various arts and sciences. The subject is a recognized study in all courses, in the Sophomore year.

Text-book: Remsen's Introduction to the Study of Chemistry (Briefer Series;) Remsen's Chemical Experiments.

Four hours fall and winter terms.

2. *Qualitative Analysis.*

This course embraces a systematic study of those reactions which are most often employed in detecting the presence of the more common bases and acids. The instruction is, for the most part, carried on in the laboratory, where the student is trained in the practical analysis of various substances, proceeding from those which are easily soluble in water and acids, to those which are insoluble, and to alloys and complex mixtures.

Open to those who have had Course 1.

Text-book: Noyes' Qualitative Analysis.

Four hours spring term.

3. *Quantitative Analysis.*

This course offers thorough training in the quantitative determination of inorganic acids and bases. The work in the first term is gravimetric, and in the second term volumetric. The student is trained in the various processes of weighing, preparation of substance in proper form for gravimetric determinations, preparations of standard solutions, chemical calculations, etc. As wide a range of analysis will be undertaken as time permits.

Open to those who have had courses 1 and 2.

Text-book: Talbot's Quantitative Analysis.

Four hours fall and winter terms.

4. *Inorganic Preparations.*

This course is designed for those who, having taken course 1, desire to acquire greater familiarity with the methods of preparation of the more common inorganic substances met with in laboratory work. A large number of such substances will be made by each

student, the particular compound selected being chosen because of some special interest in themselves, or as illustrating some general process in their preparation.

Along with the work in the laboratory, lectures will be given once a week reviewing the subject of inorganic chemistry, and especially emphasizing the class similarities of the elements as grouped by the periodic law.

Open to those who have had Course 1.

Text-book: Thorp. Inorganic Chemical Preparations.

Three hours spring term.

5. Organic Chemistry.

This course is intended to be an introduction to the study of organic chemistry, and is designed especially for those who intend to enter upon advanced study of chemistry, or upon biological or medical courses. It embraces an elementary study of the more common compounds of carbon, special attention being directed to the classification of such substances, and to a clear presentation of their structure.

Open to those who have had Course 1.

Text-books: Remsen's Organic Chemistry; Orndorff's Laboratory Manual.

Four hours fall term.

6. Physiological Chemistry.

This course is especially arranged for such students as have the profession of medicine in view. It is, in general, a continuation of Course 5, in which special attention is given to a consideration of such substances as possess physiological significance, or toxicological properties.

In the laboratory, the work consists of water

analysis, of the chemical examinations of various animal products such as blood, urine, and stomach fluids, and of chemical tests for various poisons. It is the aim of the course to give practical experience in such chemical examinations as are commonly demanded in medicine, and to make them intelligible to the student from the chemical standpoint.

Open to those who have had courses 1 and 5.

Four hours winter and spring terms.

The chemical department has been given all of the space on the second floor of the main building; and thus enlarged, it will be amply provided with the desk-room necessary for carrying on the various courses in a satisfactory manner. When fitted up for use, it will include a general laboratory for elementary work, an analytical and an organic laboratory, weighing room, gas analysis room, two stock rooms, lecture room, private office and laboratory.

The laboratories are furnished with gas, water, and electricity, and the department is well equipped with apparatus and appliances sufficient for carrying on the courses outlined above.

ELOCUTION AND ORATORY.

CATHARINE A. FINDLEY, ASSOCIATE PROFESSOR.

The design of this department is to make good conversationalists, good readers, good speakers. The ideal speaker must not only instruct his hearers, but he must persuade them and move them to action. His power,

apart from the importance of his subject, lies in his personal magnetism, which depends largely on the measure of his sympathies. That which the speaker has to impart to his audience of *his personal experience at the time of speaking* persuades his hearers and moves them to action.

The constant effort made in the reading lesson to put ourselves in rapport with the author; to see what he sees and feel what he feels, develops and controls our own imaginative and emotive powers. Our voices and our bodies become instruments of communication between us and our hearers. Now, then, comes the need for training. Believing that the voice is simply a medium for the soul's emotions, we develop it to its greatest extent of power, flexibility and beauty, that it may more powerfully set forth these emotions.

But we do not stop here. There is a language more eloquent than words—the language of the eye, the hand, the plastic form. Nor can these be separated from the voice. When we are stirred to speak, the face lights up, the chest expands, the whole body becomes infused with new life, and speaks a language more eloquent than words.

That master of expression, Francois Delsarte, spent his life in the study of human nature as exhibited in unconscious action—especially of the southern nations, who gesticulate more freely than we do—and from that study he deducted a method by which we train the whole muscular system to respond to every change of the soul's emotions.

The course then, will include, in connection with the study of literature, the development of the voice

and the training of the form according to the Delsarte method.

First Term—Physical culture, development of the voice, inflection, phrasing and expressive reading, using Curry's Classic Selections as a text-book.

Second Term.—Development of the voice, articulation and pronunciation, with use of the same text-book.

Third Term.—Æsthetic gymnastics for relaxing, energizing and directing muscular force; gesture begun; the use of a dramatic classic as a text-book.

Fourth Term.—Gesture continued with use of a dramatic classic as a text-book.

Two declamations or orations per term will be required from each student.

An elective, consisting of the dramatic rendering of a Shakespearian drama, will be offered during the middle term of the Senior year to those who have completed the courses in Literature and Elocution.

VOCAL AND INSTRUMENTAL MUSIC.

LOUIS BAKER PHILLIPS AND LULU C. KING, INSTRUCTORS.

The Board of Trustees have recently added a course in Music without determining precisely what its relation to the other departments should be. This course for the present is as follows:

- a.* Chorus and Sight reading.
- b.* Voice Culture.
- c.* Piano and Theory.

Under the first, the work is distributed into ele-

mentary instruction on the lines and spaces as representing sounds; notes as representing quality; the clefs, rythm, the diatonic major scale. Further lessons in dictation in connection with blackboard exercises for the purpose of familiarizing the student with the simplest succession of tones and rythmic form. Next the interval system. Here progressive exercises are used in order to familiarize the pupil with the various intervals, and particular attention is given to correct intonation and purity of tone. Finally, the theoretical and practical development of the major and minor scales, followed by exercises in the use of both modes.

With students of the second grade the matter in the first is recapitulated. This is followed by solfeggio exercises in two parts on the compositions of ancient and modern masters. Pupils of the third grade study three and four part compositions in which special stress is laid on the acquisition of a correct pronunciation of both vowel and consonant sounds.

Under the head of Voice-culture, instruction is given upon the correct position while singing; the position of the mouth, tongue and larynx; the manner of attacking and leaving a note; the manner of forming pure tones in the different registers, and of connecting tones without slurring. Next in order are respiratory exercises in which the pupil is taught how to acquire a long, noiseless and easy breathing by slow inhalations and exhalations. These are followed by exercises in scales, runs, trills and other embellishments. The laws of expression as set forth in the words of old and modern masters are also studied. Last in order is the expression of vowel and consonant

sounds. The pupil is taught how to pronounce distinctly without injuring the purity of the vocal tones.

PIANO.

This instrument is studied in the following order:

First Grade.—Doerner's Technical Exercises, Grade 1; Kohler's Studies, opera 151, 157 and 50; Loeschorn's Studies, opus 84, Nos. 1 and 2; Diabelli's Studies, opus 125; sonatinas and easy pieces by Lichner, Spindler, Reinke and Kohler.

Second Grade.—Doerner's Technical Exercises, Grades 1 and 2; Lebert and Stark, vol. 2; Loeschorn's Studies, opus 66, No. 1; scales, major and minors in thirds and sixths; broken chords and arpeggios both major and minor; Studies by Hiller, opera 45 and 46; Sonatinas and the easier pieces of Kullak, Clementi, Kohler and Scharwenka; Brethorn's Rondo in C major and Brethorn's Variations, opus 3.

Third Grade.—Doerner's Technical Exercises, Grades 1, 2 and 3; Kullak's first book of octave studies; Czerny's Velocity Studies; Cramer's Studies; Bach's Inventions in two and three voices; Schuman's Compositions; Mendelssohn's Songs without Words, and Sonatas by Mozart and Haydn.

Fourth Grade.—Doerner's Technical Exercises, Grades 1, 2 and 3; Kullak's second book of octave studies; Tausig's Daily Studies; Czerny's Daily Studies; Gradus and Parnassum, by Clementi; Bach's Well-tempered Clavichord; Mendelssohn's Songs without Words. Finally, Mozart and Beethoven's Concertos, together with compositions by old and modern masters.

All the pupils in this department are required to take the complete course in Harmony contained in

Classess A and B of Broekhoven's System of Harmony. The requirement for the pupils in vocal music is limited to class A. Students' recitals will be given in the college chapel each term, in which all who are qualified will be expected to take part. The value of such practice need not be dwelt on here.

With a view to encouraging the systematic study of music it may be taken as an elective on the same conditions as those provided for other electives. Music, if properly studied, has an educational value nearly or quite equal to that of any other branch. But it is of far less importance to be a fine player than an intelligent judge of good music. Those who wish to become performers will be accommodated as far as possible, but the chief attention of the teachers will be directed towards the attainment of genuine musical culture.

Students who have had three years of lessons on the piano, two per week, and one of theory, or an equivalent, may be excused from all language study in the Preparatory Department. Musical theory shall constitute one study and may be pursued as long as the student desires to do so. Those who take two lessons per week in instrumental music or vocal training may receive credit for 75 hours' elective work per year. A good knowledge of English will be insisted on. Those who attain a sufficient degree of proficiency in music may receive a certificate in addition to their diploma.

Among the text-books used will be Behnke's Mechanism of the Human Voice; Behnke & Browne's Voice, Speech and Song, and The Child's Voice; Elson's German Song and Song Writers; Fay's Music Study in German; Fetis' Music Explained to the

World; Goodrich's Music as a Language, and Complete Musical Analysis; Hand's Aesthetics of Musical Art; Upton's Standard Operas and Oratorios; Biographies of the Great Musicians by Nohl and by Hueffer; Ritter's History of Music; Musical Acoustics by Broadhous; Grove's Dictionary of Music and Musicians, etc.

A comparison of the above course with any other in the country will show that it is surpassed in excellence and thoroughness by none and equaled by few. Those who complete it will not only have an intelligent comprehension of music both in itself and its relation to the other arts of civilization, but will possess an excellent education in addition. A musical literary club meets once in two weeks for the study of the literature and history of music.

DRAWING AND PAINTING.

SARAH STINSON, INSTRUCTOR.

It is the aim of this department to give a practical knowledge of art, and to lead pupils, through the cultivation of their observing powers, to an appreciation and love of the beautiful as found in nature and expressed in the handiwork of man. As form-study and drawing furnish the foundation for this course of instruction, special attention is given to that part of the work. No pupil will be allowed to take painting who has not had at least three terms of drawing. Charcoal is the medium chosen, and all drawings must be made from the object. Pencil and pen and ink may be used in advanced grades. Instruction in out-of-door sketching will be offered dur-

ing the spring term to those who have completed five terms in charcoal drawing.

The course of instruction is as follows:

First Grade.—(1) Outlines from geometrical solids. (2) Shaded studies from geometrical solids. (3) Outlines and shaded studies from still life. (4) Outlines and shaded studies from features.

Second Grade.—(1) Outlines for elementary blocked heads. (2) Detached features of the face, hands and feet in outline. (3) Detached features of the face, hands and feet shaded.

Third Grade.—(1) Outline from advanced blocked heads. (2) Masks in outline. (3) Masks shaded. (4) Busts in outline and shaded the size of the original.

Fourth Grade.—(1) Outline from life. (2) Shaded studies from life.

PAINTING.

First Grade.—Still life objects, single and in groups.

Second Grade.—Still life in draperies.

Third Grade.—(1) Studies from nature. (2) Studies from life.

COMMERCIAL DEPARTMENT.

This work is arranged to meet the large demand on the part of regular as well as special students for instruction in the commercial studies. It is recognized that a course in this department is not all of an education, but a very useful and important part. The regular student has an opportunity during his college course to obtain a knowledge of business rules and customs which will be invaluable to him when he afterwards goes into business or enters a profession.

The special student, who takes only this work, has the same advantages of library, reading room, literary societies, etc., as regular students, and may enter any of the regular or preparatory classes without extra charge. Moreover, the special student finds contact with the general college work helpful and inspiring. A reasonable amount of credit on any of the regular courses will be given to college students for this work.

COURSE I.—BUSINESS.

C. M. COPELAND, INSTRUCTOR.

1. THEORY OF ACCOUNTS. Five hours per week for two terms. Ample practice is given in the systems of accounts used in the various kinds of business from retailing to modern banking. It is the aim of this course to give the student a wide acquaintance with business methods and to secure proficiency in opening and closing books, journalizing, rendering statements, tracing errors, analyzing accounts, and drawing business papers.

2. ACTUAL BUSINESS AND OFFICE PRACTICE. Five hours per week for one term, and open to students who have taken Theory of Accounts. This work is on the inter-collegiate communication plan, and the transactions are with students of other colleges. The business correspondence, growing out of purchases, sales, remittances, and collections, making settlements and adjusting accounts, carried on with a number of advanced students in other cities, each one doing best for his school, must certainly develop a high grade of efficiency in all the student's work.

3. COMMERCIAL LAW AND BUSINESS FORMS. Each

two hours per week for one term. This work deals mainly with the subjects of contracts, agency, partnership, sales, and negotiable paper, and is intended to give the student an acquaintance with the principles that govern business transactions.

COURSE II.—STENOGRAPHY.

MABEL K. BROWN, INSTRUCTOR.

It is the aim of this course to teach the subject thoroughly, rather than to turn out so-called stenographers in a few months. Special attention is given to the fundamental principles of the art, as this method is believed to lead to greatest saving of time in the long run. Special inducements are offered to students intending to make law or medicine their profession to fit themselves to take notes at lectures. While the regular course is intended to cover ten months, or the whole college year, students showing special ability are encouraged and helped to finish the course in a shorter time.

First Term.—Fundamental principles of Stenography; drill in writing and reading words, sentences, and simple reading matter.

Second Term.—Principles of abbreviation, dictation for speed practice, study of business and legal forms.

Third Term.—Review of principles of outline formation, dictation of miscellaneous matter.

TYPEWRITING.

In typewriting the first months of the course are spent by the student in acquiring a correct method of fingering. Business letters and legal forms are next

taken up, followed by practice leading to high speed. As soon as practicable the student is expected to transcribe neatly and quickly the notes he has taken from dictation. Punctuation and the correct use of capitals are taught throughout the course.

Students may enter either course at the beginning of any term. Those who complete either course as outlined above will be granted a certificate, for which a fee of \$3.00 is charged. The tuition is \$5.00 and contingent fee \$3.00 per term for each course; tuition and contingent fee for both courses taken at the same time, \$13.00 per term.

The books and supplies for Course I cost about \$2.75 per term; for Course II about \$1.25.

Courses of Study

IN

Collegiate Department.

In the following scheme, the figures in parentheses indicate the number of exercises per week. It is believed that the four courses given below are equal in educational value, and all require 2500 hours of class-room work for their completion. The required work in each course is about 1500 hours. Each student is expected to select the remaining 1000 hours from the electives offered in the various departments.

REQUIRED SUBJECTS FOR THE DEGREE OF BACHELOR OF ARTS.

FRESHMAN YEAR.

Fall Term—Greek (4); Latin (4); Solid Geometry (4); Political Economy (2).

Winter Term—Greek (4); Latin (4); Algebra (4); Political Economy (2).

Spring Term—Greek (4); Latin (4); Plane Trigonometry and Surveying (4).

SOPHOMORE YEAR.

Fall Term—Greek or Latin (4); Chemistry (4); European History (3).

Winter Term—Greek or Latin (4); Physiology (4); Chemistry (4).

Spring Term—Greek or Latin (4); Biology (4); European History (3).

JUNIOR YEAR.

Fall Term—English Literature (4); Psychology (3).

Winter Term—Elocution (3); Psychology (3).

Spring Term—English Literature (4); Elocution (3).

SENIOR YEAR.

Fall Term—Advanced Botany or Geology (4).

Winter Term—Logic (4); Astronomy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF
BACHELOR OF PHILOSOPHY.

FRESHMAN YEAR.

Fall Term—Latin (4); German (4); Solid Geometry (4); Political Economy (2).

Winter Term—Latin (4); German (4); Algebra (4); Political Economy (2).

Spring Term—Latin (4); German (4); Plane Trigonometry and Surveying (4).

SOPHOMORE YEAR.

Fall Term—French (4); Chemistry (4); European History (3).

Winter Term—French (4); Chemistry (4); Physiology (4).

Spring Term—French (4); Biology (4); European History (3).

JUNIOR YEAR.

Fall Term—English Literature (4); Psychology (3).

Winter Term—Elocution (3); Psychology (3).

Spring Term—English Literature (4); Elocution (3).

SENIOR YEAR.

Fall Term—Advanced Botany or Geology (4).

Winter Term—Logic (4); Astronomy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF BACHELOR OF SCIENCE.

FRESHMAN YEAR.

Fall Term—Latin (4); German (4); Solid Geometry (4); Political Economy (2).

Winter Term—German (4); Latin (4); Algebra (4); Political Economy (2).

Spring Term—German (4); Latin (4); Plane Trigonometry and Surveying (4).

SOPHOMORE YEAR.

Fall Term—French (4); Chemistry (4); Trigonometry (4); European History (3).

Winter Term—French (4); Analytical Geometry (4); Chemistry (4).

Spring Term—French (4); Biology (4); European History (3).

JUNIOR YEAR.

Fall Term—Physics or Mechanics (4); English Literature (4).

Winter Term—Physics (4); Psychology (3); Elocution (3).

Spring Term—Physics (4); Psychology (3); Elocution (3).

SENIOR YEAR.

Fall Term—Advanced Botany or Geology (4).

Winter Term—Logic (4); Astronomy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF
BACHELOR OF PEDAGOGY.

FRESHMAN YEAR.

Fall Term—U. S. History (4); Solid Geometry (4); Political Economy (2); A Foreign Language (4).

Winter Term—U. S. History (4); Algebra (4); A Foreign Language (4); Political Economy (2).

Spring Term—U. S. History (4); Plane Trigonometry and Surveying (4); A Foreign Language (4).

SOPHOMORE YEAR.

Fall Term—A Foreign Language (4); European History (3).

Winter Term—A Foreign Language (4); Physiology (4).

Spring Term—A Foreign Language (4); Biology (4); European History (3).

JUNIOR YEAR.

Fall Term—A Foreign Language (4); English Literature (4); Psychology (3).

Winter Term—A Foreign Language (4); History of Education (4); Elocution (3); Psychology (3).

Spring Term—A Foreign Language (4); English Literature (4); History of Education (4); Elocution (3).

SENIOR YEAR.

Fall Term—Psychology (3); English Literature (4).

Winter Term—Logic (4); Astronomy (4).

Spring Term—Science of Education (4).

PREPARATORY DEPARTMENT.

ELI DUNKLE. PRINCIPAL.

This department is designed to prepare students for the regular courses of the college. Students are also received who wish to pursue elementary studies, even though they may have no intention of entering upon one of the higher courses.

Candidates for admission to this department must furnish satisfactory evidence of good character, and must pass examination in Geography, Arithmetic, English Grammar, elementary U. S. History and all studies of the courses lower than those which they wish to pursue. Persons who have certificates from county examiners in Ohio will be admitted without examination in the subjects named above. But students who expect to graduate from the Normal department must give evidence that they are thoroughly familiar with the common school branches.

There are four preparatory courses. Classical, Philosophical, Scientific, and Pedagogical, each requiring three years for completion, and each leading to a corresponding course in the collegiate depart-

ment. For the benefit of teachers and others who wish a more thorough preparation for their work, classes in Arithmetic, Elementary Algebra, and English Grammar will be organized at the beginning of each term.

SUMMER TERM.

Experience has shown that a considerable number of young persons desire to profit by such opportunities for instruction as can be offered during the months of July and August. Accordingly a summer term will begin June 27, 1898, and continue six weeks. For this term the tuition will be six dollars, or for less than the entire term, one dollar per week. Most of the classes in the Preparatory department, but especially those in the common branches, will be organized during this term and will receive the same attention as during the rest of the year. Those students who have done advanced work or propose to do such, but who feel the need of reviewing the elementary branches, will do well to avail themselves of this opportunity. Students who desire to pursue advanced subjects during this term will be accommodated as far as possible; and will receive credit for them in the same manner as if taken at any other time of the year.

For further particulars address,

THE PRINCIPAL.

THE COURSES OF STUDY IN DETAIL.

LATIN.

FIRST TERM. Collar and Daniell's Beginner's Latin Book.

SECOND AND THIRD TERMS. Arrowsmith and Whicher's Latin Readings. Especial stress is laid on inflections and composition.

SECOND YEAR. Cicero's Orations. The orations usually read are the four against Catiline, Pro Archia, Pro Marcello, and Pro Ligario. A careful study of forms and syntax is an important part of this year's work.

THIRD YEAR. Vergil's Aeneid, Books I-~~IV~~^{VI}. Grammar reviews, scansion and mythology. Collar's Latin Prose Composition.

GREEK.

FIRST AND SECOND TERMS. White's Beginner's Greek Book, with particular reference to inflections and sentence-writing.

THIRD TERM. Xenophon's Anabasis. Grammatical reviews and translation into Greek of easy prose.

FOURTH TERM. Anabasis continued through the fourth book. Jones' Greek Prose Composition.

FIFTH AND SIXTH TERMS. Homer's Iliad. Books I-V, omitting the Catalogue of Ships in Book II. Jones' Greek Prose. In this connection considerable time is given to the study of the Epic dialect.

ENGLISH.

FIRST TERM. Waddy's Elements of Composition and Rhetoric and Genung's Practical Rhetoric to Invention.

SECOND TERM. American Literature—Painter's Introduction to American Literature to page 164; Selections from Colonial and Revolutionary writers;

Masterpieces from Franklin, Irving, Cooper, Bryant and Poe.

THIRD TERM. American Literature continued—Painter completed; Masterpieces from Hawthorne, Lowell, Emerson, Longfellow and Holmes; Essays and Discussions.

FOURTH TERM. British Literature—Pancoast's Introduction to English Literature to part IV; Masterpieces from Shakspeare, Milton, Pope, Addison and Steele.

FIFTH TERM. British Literature continued—Pancoast completed; Masterpieces from Dryden, Johnson, Goldsmith, Burke, Wordsworth, Coleridge, Burns, De Quincey, Macaulay, Tennyson, Carlyle, and George Eliot; Essays and Discussions.

SIXTH TERM. Genung's Practical Rhetoric completed.

GERMAN.

FIRST TERM. Cook's Otto's German Grammar and written exercises.

SECOND TERM. Cook's Otto, written exercises, and translation of easy narrative prose.

THIRD TERM. Translation of easy narrative prose.

MATHEMATICS.

FIRST TERM. Milne's Essentials of Algebra, entire text-book.

SECOND TERM. Wells' Essentials of Algebra first nineteen sections.

THIRD TERM. Wells' Essentials of Algebra completed.

FOURTH TERM. Chauvenet's Plane Geometry, at least four books.

PHYSICS.

Two terms, 5 hours per week. Recitations 3 times a week. Laboratory work 6 hours per week, 3 hours in the laboratory being equivalent to one recitation.

Hall and Bergen's Text-book of Physics, Revised, will be used as a guide for the laboratory work, and also as an outline for the recitations. Full notes are taken in the laboratory, which are criticised corrected and copied into a permanent book. The object is to teach laboratory methods of work and give opportunity to the student to acquire more or less skill in handling apparatus, while the recitation periods are devoted to the acquisition of the elementary principles of the subject.

PHYSICAL GEOGRAPHY.

This subject is required in all courses. The Eclectic Physical Geography is used as a text-book.

ZOOLOGY.

Considerable field work is done. and, in addition, preserved marine types are made use of for dissection. Students are expected to spend some time in the zoological museum. Chapin and Rettger's Elementary Zoology and Laboratory Guide is the text-book used.

PHYSIOLOGY.

The text-book is Martin's Human Body, Briefer Course. The aim is to give a good general knowledge

of Anatomy and Hygiene and of the functions of the different organs of the body. More or less laboratory work will be done.

BOTANY.

Field and laboratory work are a leading feature in this course. Each student will prepare a herbarium of not less than forty plants. Gray's School and Field Book of Botany is the text-book.

U. S. HISTORY.

Two terms: the first of 3 hours per week, and the second of four hours per week. Text-book, either The Student's American History by Montgomery, or Channing's Student's History of the United States.

CIVICS.

The fundamental principles of the subject are carefully explained, while at the same time the practical operation of the different local and state systems are compared. Especial attention is given to the government of Ohio. The growth of our national system is thoroughly investigated.

EUROPEAN HISTORY.

This subject is pursued three terms in the Second Preparatory year.

FIRST TERM. Myers' Eastern Nations and Greece.

SECOND TERM. Allen's Short History of the Roman People.

THIRD TERM. Montgomery's Leading Facts of English History.

The aim is to give the student a general acquaintance with the leading persons, and the institutions, political and religious, with the literary and artistic movements; in general with the progress of civilization in its broader aspects. The method employed will be text-book, references to more comprehensive works, essay writing, map drawing, and lectures by the teacher.

PEDAGOGY.

FIRST TERM. Gordy's Psychology.

SECOND TERM. Quick's Educational Reformers.

THIRD TERM. Fitch's Lectures on Teaching.

DRAWING.

Required in all four courses. Two hours in the studio are considered equivalent to one recitation.

ELOCUTION.

Required work in all courses.

FIRST TERM. Physical culture, development of the voice, inflection, phrasing and expressive reading, using Curry's Classic Selections as a text-book.

SECOND TERM. Development of the voice, articulation and pronunciation, with use of the same text book.

Conspectus of Preparatory Courses.

FIRST YEAR—First Term.

<i>Classical.</i>	<i>Philosophical.</i>	<i>Scientific.</i>	<i>Pedagogical.</i>
Beginning Latin..... 5	Beginning Latin..... 5	Beginning Latin..... 5	Beginning Latin..... 5
Rhetoric—Waddy..... 5	Rhetoric—Waddy..... 5	Rhetoric—Waddy..... 5	Rhetoric—Waddy..... 5
Physical Geography..... 5	Physical Geography..... 5	Physical Geography..... 5	Physical Geography..... 5
Drawing..... 1	Drawing..... 1	Drawing..... 3	Drawing..... 1
U. S. History..... 3	U. S. History..... 3	U. S. History..... 1	U. S. History..... 3

Second Term.

<i>Classical.</i>	<i>Philosophical.</i>	<i>Scientific.</i>	<i>Pedagogical.</i>
Beginning Latin..... 5	Beginning Latin..... 5	Beginning Latin..... 5	Beginning Latin..... 5
Rhetoric—Waddy..... 5	Rhetoric—Waddy..... 5	Rhetoric—Waddy..... 5	Rhetoric—Waddy..... 5
Physical Geography..... 5	Physical Geography..... 5	Physical Geography..... 5	Physical Geography..... 5
Drawing..... 2	Drawing..... 2	Drawing..... 3	Drawing..... 3
Elocution..... 3	Elocution..... 3	Elocution..... 3	Elocution..... 3
U. S. History..... 4	U. S. History..... 4	U. S. History..... 4	U. S. History..... 4

Third Term.

<i>Classical.</i>	<i>Philosophical.</i>	<i>Scientific.</i>	<i>Pedagogical.</i>
Beginning Latin..... 5	Beginning Latin..... 5	Beginning Latin..... 5	Beginning Latin..... 5
Rhetoric—Waddy..... 5	Rhetoric—Waddy..... 5	Rhetoric—Waddy..... 5	Rhetoric—Waddy..... 5
Physical Geography..... 5	Physical Geography..... 5	Physical Geography..... 5	Physical Geography..... 5
Drawing..... 2	Drawing..... 2	Drawing..... 2	Drawing..... 2
U. S. History..... 5	U. S. History..... 5	U. S. History..... 5	U. S. History..... 5

SECOND YEAR—First Term.

<i>Classical.</i>	<i>Philosophical.</i>	<i>Scientific.</i>	<i>Pedagogical.</i>
Beginning Latin..... 5	Beginning Latin..... 5	Beginning Latin..... 5	Beginning Latin..... 5
Rhetoric—Waddy..... 5	Rhetoric—Waddy..... 5	Rhetoric—Waddy..... 5	Rhetoric—Waddy..... 5
Physical Geography..... 5	Physical Geography..... 5	Physical Geography..... 5	Physical Geography..... 5
Drawing..... 2	Drawing..... 2	Drawing..... 2	Drawing..... 2
U. S. History..... 5	U. S. History..... 5	U. S. History..... 5	U. S. History..... 5

Second Term.

Cicero's Orations.....	5	Cicero's Orations.....	5	Cicero's Orations.....	5
Greek—Second Term.....	5	History of Rome.....	5	History of Rome.....	5
History of Rome.....	5	Physiology.....	5	Physiology.....	5
Algebra.....	5	Algebra.....	5	Algebra.....	5

Third Term.

Cicero's Orations.....	5	Cicero's Orations.....	5	Cicero's Orations.....	5
Anabasis.....	5	History of England.....	5	History of England.....	5
History of England.....	5	Botany.....	5	Botany.....	5
Algebra.....	5	Algebra.....	5	Algebra.....	5

THIRD YEAR—First Term.

Virgil.....	5	Virgil.....	5	Virgil.....	5
Latin Prose Composition.....	5	Latin Prose Composition.....	5	Latin Prose Composition.....	5
Anabasis.....	5	German.....	5	Psychology.....	5
Greek Prose Composition.....	5	Elementary Physics.....	5	Elementary Physics.....	5
Elementary Physics.....	5	English Literature.....	5	English Literature.....	5
English Literature.....	5				

Second Term.

Virgil.....	5	Virgil.....	5	Virgil.....	5
Latin Prose Composition.....	5	Latin Prose Composition.....	5	Latin Prose Composition.....	5
Homer's Iliad.....	5	German.....	5	History of Education.....	5
Greek Prose Composition.....	5	Elementary Physics.....	5	Elementary Physics.....	5
Elementary Physics.....	5	English.....	5	English.....	5
English.....	5				

Third Term.

Virgil.....	5	Virgil.....	5	Virgil.....	5
Latin Prose Composition.....	5	Latin Prose Composition.....	5	Latin Prose Composition.....	5
Homer's Iliad.....	5	German.....	5	Methods of Teaching.....	5
Greek Prose Composition.....	5	Genung's Rhetoric.....	5	Genung's Rhetoric.....	5
Genung's Rhetoric.....	5	Plane Geometry.....	5	Plane Geometry.....	5
Plane Geometry.....	5				

The figure after the name of a study indicates the number of recitations per week in that subject.

List of Students.

COLLEGIATE DEPARTMENT

POST GRADUATES.

Atkinson, John Hampton, Ph. B.....	Nelsonville
Black, Anna Mildred, A. B.....	Glen Ebon
Connett, Della May, Ph. B....	Athens
Hobson, Rebekah Estella, Ph. B.....	Athens
Schwefel, Caroline, A. B.....	Athens
Wehr, Amy Moore, Ph. B.....	Athens

CLASS OF 1897.

Atkinson, John Hampton.....	Nelsonville
Beveridge, John Harrie.....	Buck Run
Cobb, Nellie Bly.....	Wellston
Connett, Della May.....	Athens
Dailey, W. Bert.....	Athens
Foss, Ashley Francis.....	Chicago, Ills.
Foster, Zella.....	Point Rock
Gillett, Nita Elizabeth.....	Athens
Hill, Linna Harriet	Athens
Hobson, Rebekah Estella... ..	Athens
Jones, Anna Marie.....	Athens
Jones, John Wesley.....	Oak Hill
LeFavor, Zenia Estella.....	Athens
Mayer, Harry Walter.....	Sacramento, Pa.
Miller, John Lewis.....	Langsville
Moulton, Frank Warwick.....	Lucasville

Osborne, Addison Pratt	Athens
Shumate, William Jasper.....	Oak Hill
Smith, Charles Clement....	Pleasant Run

SENIORS.

Batterson, Frank John.....	Athens
Clark, John Lewis.....	Downington
Cornwell, Alma Elizabeth.....	Athens
Craig, Florence Maude.....	Athens
Henderson, John Frederick.....	Rowland
O'Brien, Charles Garnett.....	Athens
Scott, Winfield Kenath....	Athens
Thomas, Orin Gould.....	Athens
Tullis, Don Delano.....	Athens
Ullom, Josephus Tucker.....	Athens
Weethee, Lucy Wilkins.....	Millfield
Wickham, Ada Ann.....	Glen Ullin, N. Dak.
Woodworth, Carlos A.....	Hanging Rock

JUNIORS.

Bean, Lonzo Gardner	Athens
Bennett, Gilbert Abel....	Amesville
Bennett, Newman Hall.....	Jacksonville
Bolinger, Michael H.....	Nelsonville
Clayton, David Roy.....	Athens
Hastings, Laura Matilda....	Athens
Heizer, Charles Francis	Georgetown
Henson, Clarence Cherington	Clay
Hooper, Dollie.....	Athens
Houston, Virginia Miller.....	Warwick, N. Y.
Joyce, Joseph Albin.....	Athens
Kaler, Charlotte Rannells.....	Athens
Kaler, Mary Engle.....	Athens
Kohberger, Henry Paul.....	Warwick, N. Y.
Koons, Stella, Irene.....	Trimble
Miller, John Edgar.....	West Bedford
Morse, Bert Edmund.....	Athens
Rink, Albert Otto.....	Athens

Roberts, John Ellis	Lysander
Towsley, Mabel Leone.....	Athens
Williams, Joshua Handel....	Jackson

SOPHOMORES.

Bahrman, Harry Rockafellar.....	New Milford, N. Y.
Batterson, George Andrew.....	Athens
Bradshaw, Alice May	Athens
Casto, Lyllian.....	Parkersburg, W. Va.
Cline, Cecil Roy.....	Mt. Blanco
Evans, Margaret Lucile.....	Athens
Fuller, Nellie May.....	Athens
Garber, Ginevra Edna.....	Athens
Gibson, Elza Goodspeed.....	Athens
Gist, Grace Lilla.....	Athens
Hoover, Bertha Blanche.....	Athens
Lash, E. Rey.....	Athens
Linscott, Albert Franklin.....	Amesville
McLane, Arwilla Carrie.....	Athens
Ogier, William John.....	Hamden Junction
Sackett, Lawrence Andress.....	Athens
Sheldon, Thomas Henry.....	Athens
Skinner, Beverly Oden.....	Somerset
Stearns, Clifford Heald.....	Washington, D. C.
Townsend, Mary Allen.....	Athens
Tullis, Flora Blanche.....	Athens
Voorhees, Leon Vaughn.....	Frankfort
Welch, Philip Johnson.....	Athens
Wheeler, Newberry William, Jr.....	Portland
Wickham, Mabel Leona.....	Glen Ullin, N. Dak.
Wilson, Blanche Nellie.....	Athens
Wilson, Mabel Zoe.....	Athens
Wood, Mary Ellen.....	Athens

FRESHMEN.

Blackwood, Nellie Rosemond.....	Athens
Brown, Minnie Frances.....	Athens
Brown, William Allen.....	Athens

Cable, Will Ransom.....	Athens
Caldwell, James Everett.....	Canby, Cal.
Casto, Dorr Clayton.....	Parkersburg, W. Va.
Dew, Perley Leroy.....	Athens
Eikenberry, Charles Murray.....	Camden
Evans, Jacob Claire.....	Athens
Gibson, Ned Curfman.....	Amesville
Hall, Jenna Rosalie.....	Logan
Hall, Elizabeth Alma.....	Logan
Hambleton, Benjamin Franklin.....	Hooksburg
Higgins, Annette Amity Amanda.....	Athens
Horn, Bernice Le Roy.....	Medina
Irwin, Rochester.....	South Perry
James, Arthur Ellsworth.....	Wellston
James, Frederic Murphy.....	Logan
Johnston, Fred Preston.....	Trimble
McLaren, James Walter.....	Marietta
Matheny, Charles Morris.....	Athens
O'Bleness, Mame Lulu.....	Athens
O'Bleness, Ralph Alphonso.....	Athens
Paine, Howard Shepherd.....	Hamden Junction
Pickering, Nellie Marcus.....	Athens
Pilcher, Benjamin Luther.....	Canaanville
Robbins, Mary Elizabeth.....	North Branch, N. J.
Sackett, Guy.....	Athens
Somers, Alice Mary.....	Athens
Somers, Maud Elizabeth.....	Athens
Soule, Minnie.....	Wilkesville
Timms, Margaret Kearns.....	Zanesville
Witman, Dwight Newcomb.....	Athens
White, Gershom Franklin.....	Hooksburg
Wood, James Perry, Jr.	Athens

IRREGULAR AND SPECIAL STUDENTS.

Alderman, Adda Primrose.....	Athens
Barker, Janette Streight.....	Marshfield
Brewer, Alice.....	Athens
Burns, Esther Helen, A. B.....	Athens
Burns, Katharine Scott, A. M.....	Athens

Collier, William Parker, A. B.	Wheeling, W. Va.
Cook, Florence Ora	Beebe
Cornell, Blanche	Athens
Cornell, Mary	Guysville
Dalrymple, Marie	Athens
Dixon, Asher Hooper	Marshfield
Ford, Spencer James	Camden, N. Y.
Ford, Warwick Stephen, A. B.	Camden, N. Y.
Hines, Hattie May, A. M.	Athens
Linton, Nancy Elvira	Athens
McLean, Susie May	Shelbyville, Tenn.
Moore, Stella M.	Athens
Newland, Lillian Ethelda	Athens
Pickering, Julia Doddridge	Glouster
Poston, Lizzie May	Athens
White, Mame A.	Coolville
Will, Mary Amanda	Zaleski

THIRD PREPARATORY.

Batterson, Mayme Alice	Athens
Beattie, Estella May	Nelsonville
Biddle, Asher Cadden	Fisher
Bittle, Harry Low	Lewisburg
Black, Margaret Geneva	Glen Ebon
Border, Daniel Webster	Hebbardsville
Bryson, Charles Harvey	Glouster
Cable, Adda	Athens
Charter, Olive Marie	Athens
Clements, Jerry Riley	Waverly
Conner, May Sherwood	Athens
Cooley, Guy Bower	Athens
Cooley, Samuel Alden	Athens
Copeland, William Franklin	Tappan
Danford, Monford Elijah	Crooksville
Dean, Melissa Amanda	Athens
Dixon, Floyd	Athens
Douth, Ida Helen	Athens
Dugan, John Wesley	Rehoboth
Ely, George Leonard	Wellston

Gibbs, Austin Josiah.....	Athens
Goodman, David Kelley.....	Kingston
Greenup, Phenie Hewitt.....	Mineral
Hambleton, Antrim Marion.....	Hooksburg
Hambleton, Charles Reverdy.....	Hooksburg
Harris, Bess Putnam.....	Athens
Hays, Almonta Deaver.....	Zaleski
Headley, Sanford Alphonso.....	Jacksonville
Hedges, Fred Augustus.....	Athens
Herrick, Hobart Corning.....	Wellington
Herrold, Herbert Jefferson.....	Athens
Irwin, Algernon Charles.....	South Perry
Johnston, Ernest Ross.....	Hanesville
Kirkendall, Emmett Royal.....	Athens
Lamb, George Franklin.....	Greencastle
Lapp, George Harlan.....	Will's Creek
LeFavor, Edna Via.....	Athens
Lovell, Earl Blaine.....	Joy
Lovell, Lucile Spurr.....	Lathrop
Lovell, Paul Vane.....	Joy
Lowry, Frank Sprague.....	Athens
McMurray, John Boyd.....	West Middletown, Pa.
Martin, Eleanor Morris.....	Athens
Matthews, Max Moses.....	Vinton
Merrill, Frank Maurice.....	Athens
Neff, Mary Belle.....	Anvil
Neff, Nora.....	Key
Norris, Edward Greenleaf.....	Athens
Nunemaker, Tunis.....	Logan
Pugh, Ruth Emila.....	Nelsonville
Reah, Mary.....	Zaleski
Renz, Cora Frederica.....	Ira
Riley, Ethel Eleanor.....	Athens
Riley, Mary Martina.....	Athens
Root, Alexander.....	Big Run
Russell, Mazie Alma.....	Athens
Sheldon, Walter Rice.....	Athens
Sheppard, Carl Dunkle.....	Stella
Smith, Charles Collins.....	Athens
Sprague, Jennie Edith.....	Millfield

Stickney, Carl Hadley.....	Athens
Strate, Lenetta May.....	Roseville
Taylor, Charles Stanley.....	Wakefield
Thomas, Edwin Morgan.....	Delaware
Thomas, Mary Gwendolyn.....	Athens
Tinker, Eugene.....	Austin
Treber, Ina Edna.....	West Union
Walsh, Anna Gertrude.....	Athens
Williams, Mary Margaret.....	Shade
Wolfe, Minnie Florence.....	Nelsonville
Wood, John Vorhes.....	Athens
Workman, Albert Clinton.....	Jelloway

SECOND PREPARATORY.

Alexander, Inez Boyd.....	Athens
Allen, Mary Besse.....	Hebbardsville
Allen, Willie Guy.....	Glouster
Andrews, Huldah Elizabeth.....	Hebbardsville
Atkins, Mary Madge.....	Athens
Atkins, Nancy Maud.....	Athens
Atwood, Eva Marthina.....	Gillespieville
Barker, Dora Belle.....	Athens
Bartlett, Jennie Bingham.....	New Plymouth
Batterson, Sallie Luella.....	Athens
Beal, Perry Lewis... ..	Athens
Bean, Harry Elijah.....	Athens
Beckler, Herbert Sheldon.....	Athens
Bennett, Charles William.....	Nelsonville
Beverage, Leonora Belle..	Marshfield
Biddison, Cladius L.....	Glouster
Biddle, Frank.....	Fisher
Biddle, Victor.....	Fisher
Biddle, Mary Lucile..	Fisher
Binckley, Owen Ellsworth.....	Moxahala
Brawley, Mary Gertrude.....	Amesville
Briggs, Harry Allen.....	Chillicothe
Calhoun, Alva James.....	New Lexington
Carleton, Anna Matilda.....	Coolville
Cherry, Mae.....	Orland

Clayton, Earle Sloane.....	Athens
Clendenin, Mattie Lulu.....	Lee
Collins, Nora May.....	Nelsonville
Conner, Flora Terhune.....	Athens
Cooper, James Douglas.....	Downington
Cowan, Charles Leslie.....	Lee
Cradlebaugh, Wilbur Celsus.....	Orland
Cuckler, Minnie Luella.....	Athens
Cullums, Earl Stemler.....	Athens
Curtis, Giace Undine.....	Athens
Dailey, Irma Mabel	Athens
Dailey, Orville Davis	Lee
Davis, Madora.....	Marshfield
Davis, Theora.....	Marshfield
Devereaux, Charles Francis.....	Wellington
Dew, Stanley.....	Nelsonville
Downey, Wilbur.....	Judson
Dunlap, Samuel Major.....	Andersonville
Emory, Charles Merton.....	Flat
Figley, Clifford Charles.....	Athens
Fogg, Nellie Cecil.....	Vinton
Graham, Alva Clarence	Athens
Gregg, William Rea.....	Winchester
Hatch, Henry Arlow.....	Frost
Hatch, Mattie Marie.....	Frost
Hayson, Nannie.....	Carbondale
Hooper, Olah Angell	Athens
Hope, John Thomas.....	Athens
Hopkins, Hannah Jane.....	Downington
Hopkins, Kate Amanda.....	Downington
Howard, Alma	Athens
Howard, Charles Albert.....	Athens
Howe, Blanche.....	Coalton
Hunter, Arthur O.....	Athens
Imes, Leroy Laney.....	Marshfield
Jacobs, Nell May.....	Georgetown
Josten, Mary Catherine.....	Anthony
Joyce, John.....	Athens
Kennard, Moses Herbert.....	Carbondale
Kennard, Lizzie May.....	Carbondale

Koons, Herman Lloyd.....	Athens
Kern, Margaret Mabel.....	Athens
Lamb, Laura Alice.....	Greencastle
Loomis, Edwin Lemmon.....	Enterprise
McKinstry, Grace May.. . . .	Athens
McPherson, Joseph Elwyn.....	Jasper
McVay, Mary Ada.....	Lee
Mace, James Elwood.	Buchtel
Malone, Anna Cecilia.....	Coolville
Mansfield, Merwin.....	Canaanville
Matheny, William Martin.....	Athens
Michael, Edgar Clark.....	Athens
Micklethwait, Joseph Timmonds....	Portsmouth
Miller, Artemas Roy.....	Scranton, Miss.
Miller, Frank Brown.....	Westland
Moore, William Brough.....	Piketon
Morgan, Eliza Alice.....	Starr
Mourne, Maud Lillian.....	Nelsonville
Mutchler, Finley Guy.....	Rutland
Patterson, Alice Gertrude.....	Hebbardsville
Porter, Orlie Cecil.....	Amesville
Potter, Minnie Rosa.....	Hebbardsville
Powell, Flora.....	Broadwell
Prather, Nannie.....	Piketon
Pulliam, John Benjamin.....	Lynchburgh
Richmond, Winifred Vanderbilt.....	Amesville
Rickey, Lester.....	Creola
Roberts, Blanche.....	Millfield
Robinett, Stephen Edward.....	Marshfield
Roach, Clarence Wayne.....	Athens
Roach, Nelle Ostella	Athens
Roach, Orr Rufus.....	Athens
Robinson, Jennie.....	Athens
Russell, Kyle Denton.....	Lee
Sackett, Florence Margaret.....	Athens
Shamel, George Maynard.....	Pleasanton
Six, Anna Gertrude.....	Chauncey
Smith, Daisy Villa.....	Stewart
Smith, Thomas Maynard.....	Rutland
Snow, Dalton Clifford.....	Athens

Snow, Grace Leota.....	Athens
Snow, Herbert Lindley.....	Athens
Spencer, Holmes Augustus.....	Vienna, W. Va.
Steenrod, Estella Wynona.....	Athens
Swaim, Clement Celsus.....	Columbus
Swisher, Henry Dayton.....	Cheshire
Walker, Ina Maud.....	Athens
Walker, Nelle Hutchens.....	Athens
Walsh, Emma Evelyn.....	Athens
Warden, Winifred Augusta.....	Athens
Ware, John Franklin.....	Buchanan
Welling, Michael Clifford.....	Chauncey
Williams, Della E.....	Oak Hill
Wilson, Ida Althea.....	Nelsonville
Whaley, James Howard.....	Athens
Wiley, Lola Claire.....	Guysville
Williamson, Frances.....	Amanda
Williamson, Lissa.....	Amanda
Williamson, Mark Hooker.....	Amanda

FIRST PREPARATORY.

Allison, Ida.....	Marshfield
Baird, Mattie Estella.....	Sand Run
Betts, Frank Cole.....	Carbondale
Bishop, Mollie Gertrude.....	Anthony
Black, Charles Douglass.....	Athens
Bobo, Ola Marie.....	Lysander
Brown, James Nelson.....	Lee
Brickles, Ross.....	Beaumont
Carpenter, John Lemuel.....	Carpenter
Coe, Celia.....	Chauncey
Cole, George Eagle.....	Athens
Cone, Ida Bessie.....	Athens
Cook, Orlie Morris.....	Chauncey
Dalton, Ralph Augustus.....	Athens
Davis, Albert.....	Marshfield
Dillinger, Herbert Franklin.....	Lysander
Dinsmore, Mid Earl.....	Garden
Dixon, Vernon Walker.....	Gillespieville

Duffee, Everett Leslie.....	Lee
Dye, Charles Gideon.....	Torch
Ely, Benjamin Franklin.....	Charity
Francis, Millie Belle.....	Athens
Frazier, Vaughn Curtis.....	South Perry *
Gabriel, Flossie May.....	Marshfield
Gifford, Frank Henry.....	Sharpsburg
Grimes, Alva Chase.....	Athens
Gross, Charles William.....	Athens
Gross, Frederick Edward.....	Athens
Guthrie, Joseph Arthur.....	Garden
Hanna, Maggie Estella.....	Sand Run
Higgins, Cyrus Dow.....	Athens
Hoisington, Otto Leon.....	Stewart
Holcomb, Bonnie Bird.....	Vinton
Holcomb, Harper.....	Vinton
Hooper, George Eldon.....	Pleasanton
Hooper, Grace Frances.....	Athens
Hooper, Lulu Belle.....	Pleasanton
Hope, James Garfield.....	Athens
Hughes, Mary Alzina.....	Marshfield
Ines, Richard Price.....	Marshfield
Jacobs, Anna Reese.....	Georgetown
Jacoby, Gertrude.....	Sand Run
Johnson, Azel Bart.....	Trimble
Johnson, Nettie Tabitha.....	Fisher
Jordan, Nellie.....	Hebbardsville
Kale, John Raymond.....	Athens
Kennard, Susie Arminta.....	Carbondale
Kent, Carl Mathews.....	Vinton
Kent, Raymond Chester.....	Vinton
Kern, Isaac Selden.....	Athens
Leyden, Kate Cecile.....	Buchtel
Linscott, Mary Eliza.....	Utley
McClannahan, Nellie Blanche.....	Athens
McDaniel, Mary.....	Starr
Mackin, Leo Patrick.....	Athens
Martindale, William Clifford.....	McArthur
Matheny, William Alderman.....	Chauncey
Milhon, Leonette.....	Stella

Miller, Arra Menta.....	West Bedford
Mills, Clara Ginevra.....	Athens
Mohler, Nellie Blanche.....	Lee
Moore, Ernest Earle.....	Athens
Moore, Harry Rice.....	Athens
Morgan, Frances.....	Starr
Patterson, Linna Rider.....	Athens
Patterson, Mary Forestine.....	Hebbardsville
Patterson, Nellie Elizabeth.....	Hebbardsville
Perry, John Edmond.....	Beaumont
Pierce, Morton A.....	Shade
Rardin, Herman.....	Athens
Roberts, William Jason.....	Lysander
Roush, Perl Emerson.....	Athens
Secoy, Wilber Marshall.....	Athens
Smith, Chauncey Benninghaus.....	Mountville
Smith, Chester William.....	Mountville
Smith, Murray Franklin.....	Dundas
Smith, Rena Ann.....	Mountville
Smith, Roscoe Monroe.....	Mountville
Snyder, Orin Earl.....	Mountville
Stone, Mattie A.....	Youba
Stone, Stanley Johnson.....	Union Urnace
Stage, William Addison.....	Athens
Stephenson, Velma Frances.....	Athens
Thompson, Bernard Heatherly.....	Athens
Thompson, Hart.....	Athens
Thompson, Herbert.....	Athens
Thompson, Melvina May.....	Carbondale
Thompson, Rilla Dorothy.....	Carbondale
Thornton, Maud.....	Athens
Tolliver, Charles.....	Glen Ebon
Weidman, James Millard.....	Athens
White, Warren Fearing.....	Nelsonville
Wolfe, Charles Walter.....	Linscott
Woodworth, Lorin Robert.....	Athens
Wright, Eugene.....	South Bloomingville
Wrightsel, Bertha Ethel.....	New Plymouth
Young, Evalene.....	Marshfield

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	<hr/>
	437
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Alumni Association.

Constitution.

ARTICLE I. This Association shall be called the "Alumni Association of the Ohio University."

ART. II. The Officers of the Association shall be a President, Vice President, Secretary, Treasurer, and an Executive Committee, consisting of three members, to be chosen annually.

ART. III. The annual meetings of this Association shall be held in connection with the Commencement exercises of the University.

ART. IV. The object of this Association shall be to cultivate fraternal relations among the Alumni of the University, and to promote the interests of our Alma Mater by the holding of social reunions, by literary exercises, or by such other means as the Association may, from time to time, deem best.

ART. V. Any member of the Faculty, and graduate of the University, also anyone who has spent three years in the college classes of the University, and has been honorably dismissed, may, by the payment of one dollar and the signing of the Constitution, become a member of this Association.

ART. VI. This Constitution may be altered or amended at any annual meeting, by a vote of two-thirds of those present at such meeting.

ART. VII. *Amendment.* The members of this Association shall each pay into its treasury an annual fee of one dollar, and the sum so paid shall be expended in defraying the expenses of the annual reunion.

OFFICERS OF THE ALUMNI ASSOCIATION FOR 1897-8.

President, L. M. Jewett, Class of 1861.

Vice-President, Della May Connett, Class of 1897.

Secretary, H. R. Wilson, Class of 1896.

Treasurer, H. G. Stalder, Class of 1894.

EXECUTIVE COMMITTEE.

L. M. Jewett, '61.

E. J. Jones, '73.

T. R. Biddle, '91.

Margaret Boyd, '73.

B. O. Higley, '92.

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Calendar for 1899-1900.

FALL TERM begins September 12, and ends December 22.

HOLIDAY VACATION begins December 23, and ends January 1, 1900.

WINTER TERM “ January 2, “ March 16.

SPRING VACATION “ March 17, “ March 26.

SPRING TERM “ March 27, “ June 21.

COMMENCEMENT EXERCISES, 1900, June 17-21.

June 21, Commencement.

16 Je '99 of .

Corporation.

Board of Trustees.

	APPOINTED
Governor A. S. Bushnell, (<i>ex-officio</i>).....	Columbus..... —
Hon. E. H. Moore.....	Athens..... 1861
Hon. George W. Boyce.....	Cincinnati..... 1875
Hon. V. C. Lowry.....	Logan..... 1885
L. M. Jewett, Esq.....	Athens..... 1887
Hon. Chas. Townsend.....	Athens..... 1887
C. C. Davidson.....	Alliance..... 1891
Prof. A. Leue, Ph. D.....	Cincinnati..... 1891
R. E. Hamblin.....	Toledo..... 1890
Hon. Lucien J. Fenton.....	Winchester..... 1892
J. E. Benson.....	Cleveland..... 1892
E. J. Jones, Esq.....	Athens..... 1893
J. M. Welch, Esq.....	Athens..... 1895
Wm. E. Bundy, Esq.....	Cincinnati..... 1896
J. P. Wood, Esq.....	Athens..... 1896
F. C. Whiley.....	Lancaster..... 1896
Albert Douglas.....	Chillicothe..... 1897
Hon. H. W. Coultrap.....	McArthur..... 1897
D. H. Moore.....	Athens..... 1898
Thomas Blackstone, M. D.....	Circleville..... 1898

Officers of the Board.

E. J. JONES, President.

A. J. FRAME, Treasurer.

L. M. JEWETT, ESQ., Secretary and Auditor.

Faculty.

CHARLES W. SUPER, Ph. D., LL. D.,
Professor of Greek and Dean of the Faculty.

DAVID J. EVANS, A. M.,
Professor of Latin.

WILLIAM HOOVER, Ph. D., LL. D.,
Professor of Mathematics and Astronomy.

WILLIS BOUGHTON, A. M.,
Professor of Rhetoric and English Literature.
(Absent on leave during Spring term.)

LOREN D. MILLIMAN, A. B.,
ad interim Professor of Rhetoric and English Literature.

HENRY E. CHAPIN, M. S.,
Professor of Biology and Geology.

WILLIAM E. HENDERSON, Ph. D.,
Professor of Chemistry.

ALBERT A. ATKINSON, M. S.,
Professor of Physics.

BREWSTER O. HIGLEY, M. Ph.,
Professor of History and Political Economy.

CLYDE BROWN, Ph. B.,
Professor of Philosophy and Pedagogy.

ELI DUNKLE, A. M.,
Principal of the Preparatory Department and Associate Professor of Greek.

OHIO UNIVERSITY.

CATHARINE A. FINDLEY,
Associate Professor of Elocution and Reading.

KATE CRANZ, A. M.,
Associate Professor of German and French.

H. ROY WILSON, A. M.,
Assistant Professor of English.

CHARLES M. COPELAND, B. Ped.,
Instructor in Commercial Branches.

LULA C. KING,
Instructor in Voice Culture.

NELLIE H. VAN VORHES,
Instructor on Piano.

SARAH STINSON,
Instructor in Drawing.

MABEL K. BROWN, Ph. B.,
Instructor in Stenography and Typewriting

FRANCIS H. SUPER, B. S.,
Assistant in Electrical Engineering.

LUCY W. WEETHEE, B. S.,
Instructor in Biology.

ELI DUNKLE, A. M.,
Secretary and Librarian.

CHARLES G. MATTHEWS, Ph. M
Assistant Librarian.

General Information.

Ohio University.

ORIGIN OF THE UNIVERSITY.

The existence of the Ohio University was provided for as early as 1787, in the purchase made from the Government of the United States by the Ohio Company of Associates. By the contract between these two parties, two townships of land were set apart for the purpose of a University, and placed under the care of the Legislature of the State. The University was organized under an act of the Legislature passed in 1804. Its Trustees are appointed by State authority and the Governor of the State is *ex-officio*, a member of the Board.

LOCATION.

Athens, the seat of the University, is situated in the southeastern part of the State. It is easily accessible from the east and west by the Baltimore and Ohio Southwestern Railroad and its branches; from the central and northern portions of the State by the Columbus, Hocking Valley and Toledo, and Kanawha and Michigan Railways. By these routes it is about

one hundred and sixty miles east from Cincinnati, and seventy-five miles southeast from Columbus.

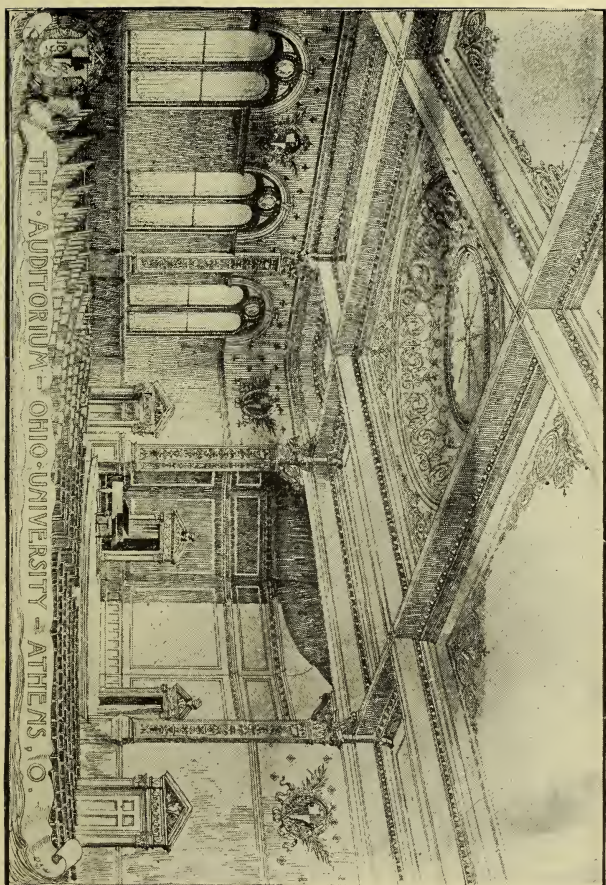
The lover of natural scenery cannot fail to be charmed with its picturesque surroundings. The winding valley of the Hockhocking and the wooded hills beyond, present a series of lovely views from the University, while the wide prospects, as seen at certain seasons from some of the neighboring summits, are seldom surpassed in quiet and varied beauty.

The University buildings are located in a beautiful campus. They occupy a slight elevation extending east and west across the grounds, fronting the north. Before them lies a park of about five acres containing a grove of fine forest trees and skirted along its northern limit by a row of magnificent elms. Beyond these sentinel trees extends a green sward sloping beautifully to the street. In front of the line at the northwest angle stands an elegant soldiers' monument. When this park is lighted up at night by electricity it presents a charming view. The remainder of the campus in the rear of the buildings is devoted to recreation.

BUILDINGS.

These are of brick and six in number. The central building was erected in 1817, and is the oldest college edifice northwest of the Ohio River. This venerable structure is dear to many by strong and tender associations, and to many more by names of eminent men who have here studied and taught. It has been modernized and is admirably adapted to its uses for college work.

The two wing buildings once used for dormitories



have been transformed into recitation rooms and laboratories. During the year all the work in the west wing including the electrical plant, has been transferred to the new Administration Building.

The chapel building in the rear of the central building is to be occupied for library purposes. In the second story are society halls with committee rooms attached.

The new Administration Hall now completed is one of the finest college buildings in southeastern Ohio. It is a T-shaped structure, four stories high including basement, and measures 156 feet in length by 131 in depth. Within is an auditorium, with gallery, furnishing seating capacity for about nine hundred people. It contains a president's office, nine recitation rooms with professors' offices attached, the laboratories of the Department of Physics, a trustees' and secretary's office, a large music hall, art rooms, and a gymnasium in the basement with three thousand square feet of floor. The methods of heating and arrangement of detail are modern and well adapted to educational work.

LADIES' HALL.

This is located nearly opposite the north entrance of the campus. It is a fine, commodious brick structure, heated by steam, where beautiful rooms are occupied by lady teachers and students. Excellent boarding can be had at moderate cost in the Hall.

Hereafter all young ladies who are not residents of Athens will be required to reside in the dormitory unless the rooms are all occupied. This regulation has been adopted with a view solely to the best inter-

ests of the young ladies themselves and not with any purpose to restrict them in the enjoyment of every legitimate privilege. It is the aim of the management to make the place as attractive and pleasant as possible and at the same time to keep the cost as low as is consistent with the accommodations provided. About thirty young ladies can be furnished with rooms.

LIBRARY AND READING ROOM.

In the study of Literature and History, the most important aid, in addition to a good teacher, is a large stock of well selected books. In this respect the O. U. is liberally provided. The college and society libraries contain about 15,000 volumes, a large part of which are of recent purchase. In addition to the books of a general character, the private libraries of the professors, which contain works of a more special character to the number of several thousand, are also accessible under certain limitations to the students. The reading room furnishes access to the latest contributions to all topics under current discussion. Some of the larger works are not only useful for reference, but also for purposes of original investigation.

It is the special aim of the managers of the Library to acquire as rapidly as issued all the leading works bearing on Pedagogy whether in German, French or English. A large number of works on this topic and the history of education is already on hand. The Library is so managed as to be accessible every day. The reading room, in which are placed most of the reference books and all the periodicals, is accessible at all times. The reading of well chosen books

not only tells the student what others have thought in every department of knowledge, but likewise stimulates him to think for himself. A good library is of itself a university.

APPARATUS AND CABINET.

The departments of Mathematics, Astronomy, Physics, Chemistry, and Biology are well equipped with valuable apparatus, which is put at the personal disposal of the student. These subjects are illustrated upon the lecture table, but it is insisted upon that a student really enters upon possession of his knowledge only when he has acquired skill in carrying on laboratory experiments by himself under the supervision of the professor.

The large Biological Laboratory has been fitted up with appliances suitable for pursuing extensive courses of study in the various departments of Biology, the selections being made with a view to furnishing each student with such apparatus, reagents, etc., as are necessary for independent work. To this end more than a score of microscopes have been provided and many duplicates of other appliances are at hand. Excellent histological apparatus is in use for freezing and sectioning, and the laboratory is also well equipped for embryological and bacteriological work.

In the department of Physics, besides balances, specific gravity apparatus, pulleys, centrifugal devices, pumps, barometers, manometers, pendulums, and a great deal of other apparatus for the demonstration of the principles and laws of mechanics, etc., there are: a set of mounted tuning forks for bows, a complete set of electromagnetic forks of various

pitches, sonometer, siren, pipes, etc., for work in sound; lenses, prisms, mirrors, polariscopes, spectro-scope, spectrometer, diffraction gratings, projecting lantern, cameras, etc., for light; radiometers, thermometers, calorimeters and other apparatus for heat; and a very good equipment of dynamos, motors, calibrating and measuring instruments, resistances, galvanometers, condensers, magnetometers, induction coils, batteries, Wheatstone bridges, various forms of reversing switches and keys, electrometers, standard cells, electrodynometers and a great deal of other apparatus suited to the general demonstration of the subject of electricity and magnetism, and to the requirements of the electrical course outlined elsewhere in this catalogue.

The chemical laboratory is equipped for work by the students in general chemistry, qualitative and quantitative analysis, and organic chemistry. The work tables for students are supplied with water and gas. Hoods are supplied for experiments upon the noxious gases. A still is set up for the continuous production of distilled water. The apparatus required by the student for the laboratory work is loaned to him and payment required at the end of the term only for what is missing or has been broken.

A fine set of surveying instruments of the most approved kind has recently been purchased for the students in field work. The cabinet affords important aid in the study of Mineralogy and Geology. But we are greatly in need of further contributions thereto, and to this end the assistance of the friends of the institution is greatly desired and earnestly solicited.

MAPS AND CHARTS.

An excellent set of maps, chiefly those of Kiepert, intended to illustrate the physical features and political changes of the historical countries of Europe and the East has lately been added to the equipment of the institution. These in addition to those already on hand, afford an important and well-nigh indispensable aid to the study of history and geography. The outfit in this regard is believed to be usually complete.

ADMISSION AND DISCIPLINE.

Entering the University will be considered a pledge to obey its rules and regulations. These are few and simple, appealing to the student's self-respect and sense of personal responsibility. Persons of known bad character or of lazy habits are not wanted and will not be retained unless they show a decided desire to reform. Students from other colleges must present certificates of honorable dismissal.

Candidates for advanced standing are, in all cases, examined to ascertain their thoroughness and proficiency; but certificates from other institutions will be accepted for the amount of work done in the different departments.

In exceptional cases students are admitted to classes for a week on trial, without examination, provided the professors in charge are reasonably certain that they can maintain their standing.

Ladies are admitted to all departments of the University on the same terms and under the same conditions as those prescribed for young men.

A record is made of the daily work of each stu-

dent. When the standing of the student, as shown by this record and examination, falls below an average grade of 70 per cent., he must review the study. A record is also kept of each student's deportment. A low standing in either record is followed by private admonition, and notice is given to the parent or guardian.

Whenever the conduct of a student is such as to indicate that he is unfit to be a member of the University, either because of immorality or because of habitual neglect of his college duties, he will be requested to withdraw. But, in the latter case, his parents will first be notified, and if he is not withdrawn within a reasonable time, he will be dismissed.

Stress is laid upon the fact that no young man or woman need hesitate to enter the Ohio University for lack of means, or because of inadequate preparation. The surest guaranty of success is an honest and determined effort to succeed. If the student has learned nothing more during the years spent in college than how to study and how to investigate any subject of which he takes hold, no matter how meager his knowledge may be at the start, he will be able to enlarge it with astonishing rapidity. His time thus spent, whether it be measured by terms or years, will have been wisely employed. Our age is sadly in need of men and women who have such a preparatory training for life's duties.

RELIGIOUS INFLUENCE.

Students are required to be present at roll-call and prayers in the chapel every morning, unless excused by the Faculty, and to attend public worship on the Sabbath; but the choice of the place of attendance is left

with the student or his parents. A students' prayer meeting is held once a week, at which attendance is optional. The University is not sectarian, and no effort is made to inculcate the doctrines of any particular creed or denomination; but the utmost care is taken to promote sound and healthy religious sentiments. We feel sure that nowhere do these matters receive more careful attention.

The founder of the Ohio University believed that "religion, morality and knowledge are necessary to good government and the happiness of mankind;" and it has been the steady purpose of those to whom has been entrusted the duty of carrying out his plans to insist on the intimate relation existing between the three. The good man, the good citizen is not he who is best informed, but he who is constantly inspired with the thought that his knowledge should be used for the good of his fellow-men. Knowledge without virtue is a curse and not a blessing. It is the constant policy of both Trustees and Faculty to inspire students with the love of knowledge, and with desire to practice religion and morality. Accordingly only those persons are invited to profit by the means of instruction here placed within their reach, who are willing to conform their conduct as far as possible to the teachings of the Bible. We expect students who have spent some time with us to depart not only wiser but also better than they came. If such is not the case it will not be for want of care on the part of the Faculty.

YOUNG PEOPLE'S CHRISTIAN ASSOCIATIONS.

Both the Y. M. C. A. and the Y. W. C. A. have flourishing organizations connected with the Ohio

University, and a large proportion of the students are members of one or the other. These hold meetings weekly or oftener, provide lectures on religious or Biblical topics, and take an active interest in promoting the spiritual, moral and intellectual welfare of the entire student body. The management of the University is in hearty sympathy with these organizations and does all that is possible to aid them in their work. The Y. M. C. A. especially, is one of the most vigorous among the colleges of the state.

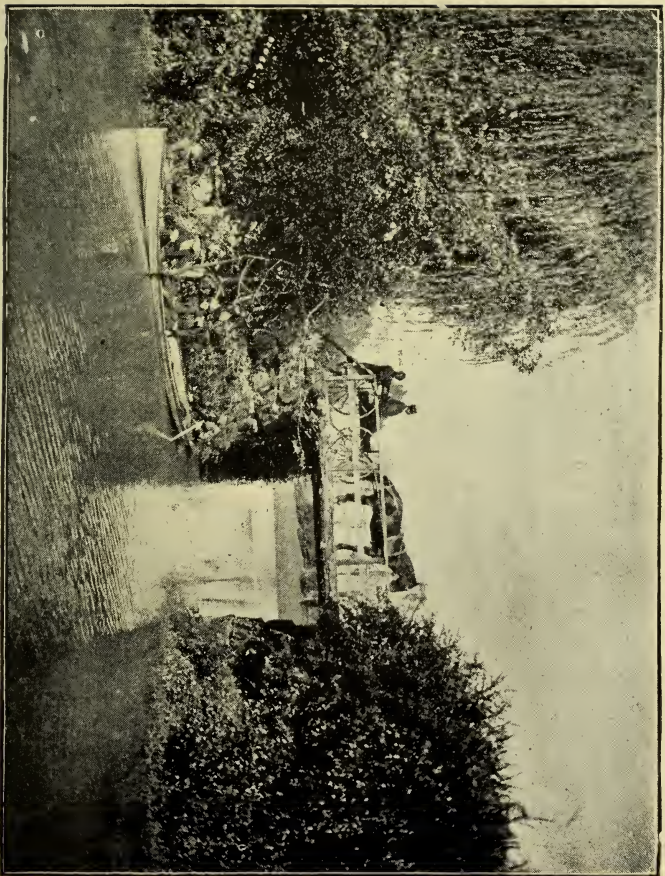
FEES.

There is no charge for tuition in any of the regular preparatory or collegiate classes. But all students pay a registration fee of three dollars per term. Besides this, instruction in the following branches is to be regarded as extra and must be paid for as follows:

Piano lessons or voice culture, per term, two lessons per week.....	\$10.00
Use of piano one hour per day, per term.....	3.00
Bookkeeping and allied branches per term.....	5.00
Stenography and typewriting.....	5.00

The regular fee in chemistry and electrical engineering is one dollar per term to cover the cost of materials used. To this should be added a small charge for breakage—to careful students usually not more than a few cents. After the second term in chemistry the regular fee is two dollars per term.

Those students who wish to pursue studies privately in the college departments for which they desire to have credit toward the attainment of a degree, will be required to pass an examination on



Boating on the Lake.

each branch, and for this examination an extra fee of \$5 will be charged, which may, however, be remitted by a vote of the Faculty.

All fees must be paid within the first thirty days of the term. No exception can be made to this regulation. The registration fee must be paid when the student enters.

EXPENSES.

Board can be obtained within a reasonable distance of the University at \$2.75 per week. By forming clubs, students may board at \$1.75 per week. Those students whose circumstances require it, are allowed to board themselves, by which means their expenses may be still further reduced; but this plan is not recommended, because likely to be prejudicial to health.

The actual cost of an education at the University will depend very much upon the disposition and habits of the students. The necessary cost is very low—as low as that of any institution affording equal advantages. It is earnestly recommended to parents not to furnish their sons or daughters with extravagant means. The scholarship and character of a student are often injured by a free indulgence in the use of money. Whatever is beyond a reasonable supply exposes him to numerous temptations and endangers his success and respectability.

As persons frequently wish to know as nearly as may be, the cost of a student for one year at the Ohio University, the following estimates are here given:

LOWEST.		HIGHEST.	
Registration fee.....	\$ 9.00	Registration fee.....	\$ 9.00
Board in clubs.....	70.00	Board in private family.....	150.00
Room.....	30.00	Room.....	40.00
Books.....	11.00	Books.....	20.00
	<u>\$120.00</u>		<u>\$219.00</u>

This estimate is for three terms or forty weeks, and includes all necessary expenses except washing, and a small fee for membership in the literary societies. The additional charges for students who take electives in chemistry and for the special class in electricity are elsewhere noted.

METHODS OF INSTRUCTION.

Instruction is given both by recitation and lecture. The constant aim in both is to awaken interest in study, to aid in the acquisition of knowledge, and to develop the powers of thought and communication.

Some subjects can be better treated in lectures than others. The knowledge the student has of a subject is likewise a factor that is taken into account. The lecture method is generally better adapted to advanced students than to those who are still in the elements. After the elementary principles have been thoroughly mastered from the text-book, supplemented with such elucidations as seem to be called for, the student is generally prepared to profit by the lectures of the teacher, and to grasp the wider outlook that is the result of a knowledge of a subject rather than of the contents of any single book, or even of several books. In the observational studies the learner is, as far as possible, brought face to face with the objects themselves under consideration. The classes in Botany and Geology make excursions into

the surrounding country for the purpose of collecting specimens and deriving scientific knowledge from original sources. The classes in Surveying and Mensuration have practice in the use of instruments in field work.

COURSES OF STUDY.

Such courses of study have been adopted as experience has proved to be best adapted to the purpose of liberal education. The classical course in fullness and matter, will compare favorably with that of the best institutions. The philosophical course is so arranged as to meet the wants of those who may prefer to study modern languages and English branches instead of Greek, for which French, German and English are substituted. In the scientific, prominence is given to mathematics and the physical sciences.

The pedagogical course is intended to fit young people for the profession of teaching. A fuller statement of its aims and methods will be found in another part of this catalogue.

Those who are able to attend for a short time only, may take a select course, provided the studies they wish to pursue are such as they are qualified to enter upon with advantage. But no student will take a study to which he has not been assigned, or discontinue a study, without permission obtained from the Faculty.

ELECTIVES.

Each student in a regular course will be required to take at least fifteen class exercises per week, and

no student will be permitted to take more than seventeen, except on permission of the Faculty. This permission will be given only on the written request of the student. Students in any one of the courses can select subjects in any one of the others below the class to which they are assigned, but not above, except on approval of the Faculty, who must be convinced that they have had sufficient preliminary training to pursue the elected study with advantage. As will be seen, about half the subjects after the Freshman year are elective. But in addition to these a large number of others are offered for the benefit of those persons who wish to specialize still further along particular lines. It needs to be noted however, that they are not offered unconditionally. Regard will be had to the time at the disposal of the teachers and to the number of students taking any particular elective, as well as to their preliminary training. In all cases where a student's knowledge of English is defective he must pursue this branch until his deficiencies are made up.

During the past few years a number of students, both undergraduate and post graduate, have pursued advanced studies on special lines. With the recent increase in the number of the Faculty a large number of students can be accommodated and in a larger number of branches.

DEGREES.

The Bachelor's degree is conferred upon students who have completed any one of the four courses laid down in another part of this catalogue. The fee for diploma is five dollars.

The Master's degree will be conferred upon graduates of this or any other college who give evidence to the Faculty that they possess such literary and scientific attainment as will make them worthy recipients of it, and have, in addition, furnished a thesis after one year's work in residence. The fee for this degree is ten dollars.

No degree will be conferred until all dues are paid.

The degree of Doctor of Philosophy will be awarded only to students who have done post-graduate work in residence.

THE EMERSON PRIZE POEM FUND.

The late W. D. Emerson, of the class of '33, bequeathed to the Trustees of the University the sum of one thousand dollars, the interest on which is to be awarded every second year to the student or graduate of the institution who shall write the best original poem. As at present invested it yields an annual revenue of \$65. The first award was made in 1893 to Miss Carrie Schwefel. The second award under the bequest was made in 1895. The prize was divided between Miss Esther Burns and Mr. John H. Atkinson. The judges were Mrs. Annie Fields, Mr. Maurice Thompson, and Mr. E. C. Stedman. The third, to Miss Virginia M. Houston, the judges being Mrs. Margaret E. Sangster, Mr. W. D. Howells, and Mr. Clinton Scollard. The thanks of the University authorities are due and are herewith tendered to these distinguished writers for the care with which they examined the verses submitted to them as well as for the interest they took in the competition.

LITERARY SOCIETIES.

There are two literary societies in the University, the Athenian and the Philomathean. They occupy well-equipped halls in the former chapel building. The members have opportunity to exercise themselves in declamation, composition, and oratory, and to become familiar with the modes of conducting business in deliberative assemblies. Debating clubs are also formed from time to time by those students who desire to have more extended practice in the public discussion of important questions.

GYMNASIUM.

The new building contains a large Gymnasium. It has already been provided with considerable apparatus for physical exercise and the supply will be increased from time to time as needed. Regular instruction in light gymnastics is given by Professor Milliman. Every student has thus an opportunity to train his body as well as his mind.

Detailed Statement

OF THE

Departments of Instruction.

GREEK.

PROFESSOR SUPER.

ASSOCIATE PROFESSOR DUNKLE.

It is the aim of this department not only to teach students to read the authors commonly read in colleges, but also to make them acquainted as far as possible with the literature and life of the ancient Greeks. In teaching the language, especially that of Homer, constant attention is called to the words related to other languages, particularly Latin, German and English; and the laws of consonantal mutation are explained. Especial prominence is given, as the student progresses, to the following points: First, form; second, vocabulary; third, relation to cognate languages; fourth, literature and history. The ear is regarded as equally important with the eye in the interpretation of words. When possible, some entire work of an author is read, as it is

thought a more lasting and more satisfactory impression will thus be made upon the mind of the student than by the use of selections only.

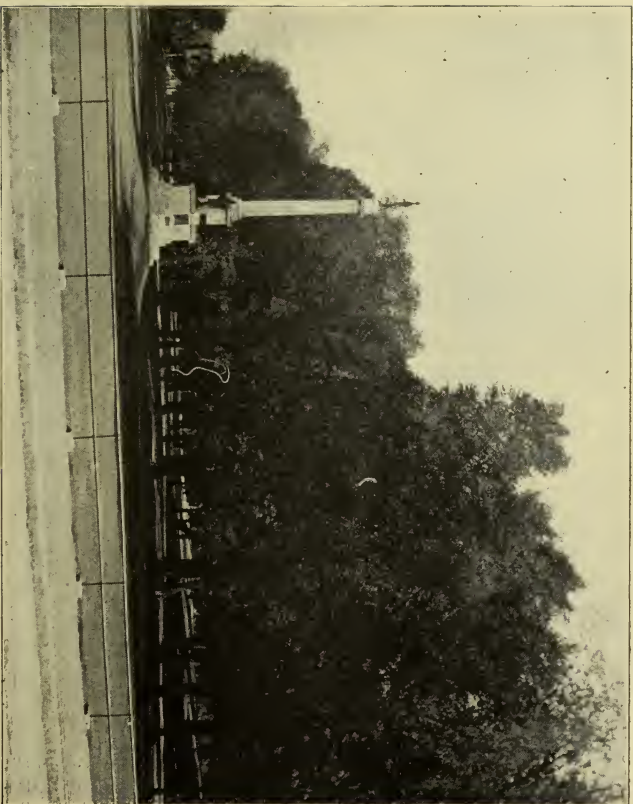
It is a well established principle in the study and teaching of the ancient languages that they should be made, as far as possible, the basis of a study of antique life. The Greek language embodies the experience of the most remarkable people of antiquity—a people whose achievements in literature, in the arts, and in government have been, and doubtless will continue to be, inexhaustible sources of profitable instruction. It is here claimed that a study of the Greek language, together with all that should properly be taken in connection therewith, will contribute the most important element of a liberal education.

Before admission to the college class in this department, the student must be fairly familiar with the Greek Grammar and have read four books of the Anabasis and five books of Homer's Iliad.

During the past year the students in college Greek have read the selections from Herodotus, Thucydides, and Xenophon in Goodwin's Greek Reader; nearly two hundred pages of the Cyropaedia; Wait's Lysias entire; Kitchel's Plato entire and the Alkestis of Euripides. More important, however, than the amount of text perfunctorily read, is a knowledge of the Greek language and a true conception of the life of Greek antiquity.

Works of reference: Hadley's and Goodwin's Greek Grammars, Goodwin's Greek Moods and Tenses, Liddell & Scott's Greek Lexicon, Peck's Classical Dictionary, Autenrieth's Homeric Dictionary, Kiepert's Classical Atlas.

ELECTIVES.—Students who wish to pursue the



North Side of Campus.

study of Greek beyond the regular course can be accommodated with three exercises per week for three terms, the subjects to be studied, or the authors to be read, to be selected by the professor. The following is the general program: As the Freshman year is devoted to a review of the Syntax, the Accidence of the Greek language in General, the student is prepared to take up the study of masterpieces, either in oratory, philosophy or poetry, with special reference to the characteristics of each. With these ends in view, one or more terms may be given to one or more of the Attic orators, to one longer and two shorter Platonic dialogues, or to some of the principal dramas. One elective term in Greek History is offered, and one in Comparative Philology.

LATIN.

PROFESSOR EVANS,

ASSISTED BY SEVERAL INSTRUCTORS.

For entrance into the Freshman class, students must complete the Preparatory Latin Course as laid down elsewhere in this catalogue or an equivalent.

During the first part of the Freshman year attention is directed to Latin Rhetoric as exemplified in the works of Cicero and Livy. During the latter part of the year, the class reads the Odes of Horace and studies Roman History. Throughout the whole year there are frequent exercises in sight reading and in turning into the original English renderings of Cæsar, Eutropius, and Nepos.

In the whole work the endeavor is to impress on the minds of the students that Latin is the language

of a moral and practical people who left their mark on the world in law and government, and that "Rome is the center of our studies and the goal of our thoughts; the point to which all paths lead, and from which all paths start again."

Hand-books: Allen and Greenough's or Gildersleeve and Lodge's or Harkness' Grammar; Allen's Roman History; Harper's Lexicon, Kiepert's wall maps of the Roman Empire and of various countries; Ginn & Co.'s Classical Atlas; Crutwell's Latin Literature; Gow's "Companion;" Smith's Dictionary of Classical Biography; and Smith and Seyffert's (Nettleship and Sandys') Dictionaries are freely accessible to students for reference in their work.

ELECTIVES: Each year one of the following courses is offered to students who desire to continue the study of the Roman people beyond the course that is required:

1. *Latin:*

Terence, Cicero, Lucretius, Horace, Juvenal, Tacitus, Paterculus, and Quintilian are studied according to the tendency or the choice of the class.

The students have access also to Simcox's, Teuffel-Schwabe's (Warr's translation), and Browne's Histories of Latin Literature, and to Guhl and Koner's Life of the Greeks and Romans.

2. *Roman History:*

A whole year is given to the study of the military and political history of Rome, special attention being directed to the causes of the struggles between the Patricians and Plebeians, and between Rome and Carthage; and to those which made Rome the con-

queror of the world, as well as to the causes which led to the decline of the Republic.

Books for study and reference: Epochs of Ancient History; Lanciani's Ancient Rome in the Light of Recent Excavations; The Great Captains—Hannibal—by Dodge; Duruy's and Mommsen's Histories of Rome; Long's Decline of the Roman Republic; and Labberton's Historical Atlas.

3. *The Roman Constitution and Outlines of Roman Law:*

This course is of interest to students who look forward to the study of law, as a study of Roman law helps one to get a clear idea of the fundamental conceptions of Jurisprudence. The study of the development of the Roman constitution and laws will help to understand how all constitutions and laws grow. In the last two courses described, students are required to consult Roman authors in addition to the authors already mentioned.

When students desire it, classes are organized to study the Vulgate Version of the Scriptures, Latin Hymns of the church, the writings of the Latin writers of church history, and other works in Patristic Latin.

MATHEMATICS AND ASTRONOMY.

PROFESSOR HOOVER, ASSISTED BY ONE OR MORE TUTORS.

The course in pure Mathematics embraces ten terms, distributed as follows: Algebra, four terms; Geometry, two terms; Trigonometry and Surveying, two terms; Analytic Geometry, one term; Calculus, one term. Of these, four terms, including Algebra to Series and Plane Geometry, are required for admission into the Freshman class; the remaining six terms

are included in the College Department, covering the Freshman and Sophomore years.

See also courses of study and electives.

In teaching the pure Mathematics, especial attention is directed to the value of the study as a means of training the logical faculties. Constant stress is laid upon the steps of reasoning which underlie the various processes; and it is insisted that the principal business of the college student of Mathematics is to apprehend these clearly.

Power to apply the principles is tested by a wide range of exercises drawn from various sources, and adapted to the capacity of the student.

A part of the Spring Term in the Freshman year is devoted to the subject of land surveying and to other applications of Trigonometry. This work is important as giving good examples of the utility of mathematical science and its practical applications. The department is in possession of an excellent set of surveying instruments, including a transit, level, rod, and other necessary appurtenances. These are in frequent use by the students.

ELECTIVES. In this department the following electives are offered: Theory of Equations; Analytic Geometry of Three Dimensions; Differential Equations; Statics and Dynamics; Elliptic Functions; Spherical Harmonics; Quaternions; Determinants; Mathematical Optics; Least Squares; and Astronomy.

RHETORIC AND ENGLISH LITERATURE.

PROFESSOR BOUGHTON.

ASSISTANT PROFESSOR WILSON.

The work of this department is intended to accomplish two objects: first, to cultivate the art of expres-

sion; second, to give the student a practical knowledge of English and American authors.

Preparatory to college English, the student must have a thorough knowledge of Grammar, and must have completed the following six terms' work or an equivalent:

FIRST TERM. Waddy's Elements of Composition and Rhetoric and Genung's Practical Rhetoric to Invention.

SECOND TERM. American Literature—Painter's introduction to American Literature to page 164; Selections from Colonial and Revolutionary writers; Masterpieces from Franklin, Irving, Cooper, Bryant and Poe.

THIRD TERM. American Literature continued—Painter completed; Masterpieces from Hawthorne, Lowell, Emerson, Longfellow, and Holmes; Essays and Discussions.

FOURTH TERM. British Literature—Pancoast's Introduction to English Literature to part IV; Masterpieces from Shakspeare, Milton, Pope, Addison, and Steele.

FIFTH TERM. British Literature continued—Pancoast completed; Masterpieces from Dryden, Johnson, Goldsmith, Burke, Wordsworth, Coleridge, Burns, De Quincey, Macaulay, Tennyson, Carlyle, and George Eliot; Essays and Discussions.

SIXTH TERM. Genung's Practical Rhetoric completed.

THE AMOUNT OF COLLEGE ENGLISH REQUIRED FOR GRADUATION.

For the B. S. degree, 60 hours' credit.

For the A. B. or B. Ph. degrees, 108 hours credit.
For the B. Ped. degree, 160 hours' credit.

COURSE I—A STUDY OF POETRY.

(Three recitations per week.)

FIRST TERM. A study of Tennyson; Lectures on English Versification; Exercises in Metrical Composition. Required for all degrees.

SECOND TERM. A Study of Lowell's Poetry; Lectures on English Versification; Exercises in Metrical Composition.

THIRD TERM. Palgrave's Golden Treasury of Songs and Lyrics (second series); Lectures on English Versification; Exercises in Metrical Composition.

The last two terms are elective. but either term may be taken as the required work of this course.

COURSE II—STUDIES IN CRITICISM.

(Four recitations per week.)

This course is designed for those who have completed one or more terms of course I, but it may be pursued parallel with that course.

FIRST TERM. Shakspeare—Merchant of Venice, Richard III, Macbeth, Julius Cæsar, King Lear, Troilus and Cressida; Moulton's Shakespeare as a Dramatic Artist, pp. 43-224. Required for all degrees.

SECOND TERM. Shakspeare—Othello, The Tempest, As You Like It, Love's Labours Lost, and Coriolanus; Moulton's Shakespeare as a Dramatic Artist, pp. 225-312. This may be taken as required work instead of the First Term, otherwise it is an elective.

THIRD TERM. Criticism—Moulton's Criticism as

an Inductive Science applied to *The Scarlet Letter*, *The Princess*, and *The Prisoner of Zenda*. This term's work is elective for all students, but must be preceded by the first or the second term of this course.

COURSE III—COLLEGE RHETORIC.

(Three recitations per week.)

This course is designed for those who have completed the third term of Course II. It is elective for all such students.

FIRST TERM. A Study of Style—Essays by Spencer, Pater, DeQuincey, Hunt, Matthews, Earle, and Stevenson; Lewes' *Principles of Success in Literature*; Essays and Stories.

SECOND TERM. Sherman's *Analytics of Literature*, Exercises in Prose and Verse.

THIRD TERM. Orations—A course designed to assist those who are preparing for contest.

COURSE IV—HISTORY OF ENGLISH LITERATURE.

(Four recitations per week.)

FIRST TERM. The Age of Elizabeth—Saintsbury's *History of Elizabethan Literature*; Two Books of the *Faerie Queen*; Thayer's *Best Elizabethan Plays*, or an equivalent; Essays and Discussions, Elective for all students who have completed one term of Course II.

SECOND TERM. XVIIIth Century—Gosse's *Eighteenth Century Literature*; Readings from Dryden, Addison, Johnson, Goldsmith, and Burke; Essays and Discussions.

Required for the B. Ped. degree, but elective for

all other students who have completed one term of Course II.

THIRD TERM. XIXth Century—Saintsbury's History of Nineteenth-Century Literature; Essays and Discussions.

Required of all students except those who are candidates for the B. S. degree. One term of Course II must precede this work.

COURSE V—SENIOR WORK.

(Three recitations per week.)

This course is elective for those who have completed the required work in this department.

FIRST TERM. Browning.

SECOND TERM. English prose from Elizabeth to Victoria.

THIRD TERM. Palgrave's Golden Treasury of Songs and Lyrics. (First Series).

EUROPEAN HISTORY.

COURSE I, Sophomore; the Fall and Spring terms of this course are required; 3 hours per week.

FALL TERM.

The Absolutism of the 17th Century.

Text Book—Wakeman's.

Ascendancy of France.

WINTER TERM.

The French Revolution and the Napoleonic Era
Text Book—Mignet's French Revolution.



Ladies' Hall.

SPRING TERM.

The Nineteenth Century.

COURSE II; open to those who have taken Course I; three hours.

FALL TERM.

The Middle Ages and the Renaissance; a study of the growth of the Papal Power, of the Crusades, of the conflict between the Empire and the Papacy, and of the Revival of Learning.

Books of Reference: Symonds' Renaissance in Italy, 7 vols.; Burckhardt's Renaissance; Henderson's Germany in the Middle Ages; Pool's Illustrations of the History of Medieval Thought; Pastor's History of the Popes; Lea's History of the Inquisition; Lea's Superstition and Force.

WINTER TERM.

The Reformation.

Books of Reference: Hausser's History of the Reformation, Beard's Reformation; translations of the works of Luther, Erasmus, Calvin, etc.; Ranke's History of the Popes; Baird's Rise of the Huguenots, The Huguenots and Henry of Navarre; Motley's Rise of the Dutch Republic.

SPRING TERM OF 1899.

English History in the 16th and 17th centuries.

Books of Reference: Seeley's Expansion of England; Seeley's Growth of the British Policy; Gardin-

er's Histories (covering the period of the early Stuarts, the Commonwealth, and the Protectorate.)

SPRING TERM OF 1900.

A Critical Study of the French Revolution.

Books of Reference: Morley's Voltaire, Rosseau Diderot; DeTocqueville's Ancient Regime; Taine's Ancient Regime and French Revolution; Stephens' French Revolution; W. W. Stephens' Turgot; The Life of Napoleon, by Sloane, by Lanfrey, and by Founier.

In this course considerable use is made of the valuable reprints issued by the University of Pennsylvania, and if the student has time and preparation, he will have opportunity to consult the Latin, German, and French sources.

COURSE III.—Spring term, Sophomore, 3 hours, Seeley's Introduction to Political Science.

COURSE IV.—Fall term, Senior, 2 hours, Bagehot's English Constitution.

Winter term, 4 hours, Burgess's Political Science.

Spring term, 3 hours, The History of Political Theories; an examination of the political theories of Aristotle, Machiavelli, Bodin, Hobbes, Locke, Filmer, etc.

COURSE V.—French Historical Readings, 2 hours.

Fall term, Taine's Ancient Regime.

Winter term, Mignet's Histoire de la Revolution francaise, t., I.

Spring term, Mignet's Histoire de la Rev. fr., t., II.

UNITED STATES HISTORY AND POLITICAL
ECONOMY.

PROFESSOR B. O. HIGLEY.

The importance of the study of United States History in preparing citizens to exercise the duties incumbent upon them as members of the body politic is growing more apparent every year. Therefore the aim of the teaching in this department is so to read the history of the past as to throw light upon present civic and economic problems, and thus aid in their solution. The disciplinary value of the subjects included in this department is kept constantly in view. History is regarded as a record of the social, economic, moral, and political life of the people. Environment, former ideas, and changing industrial conditions are all considered as important factors in determining the course of events. The work of our great leaders in thought and action is studied carefully in connection with the history of the people. Students are encouraged to investigate the civic and economic questions of the present day with minds as free as possible from partisan prejudice and preconceived opinions.

The standard books in Civics and Economics are studied, and the views therein expressed are freely discussed in the class-room. Government publications, magazine articles, and other valuable material are read for the purpose of obtaining all the light possible upon the subject under discussion as well as to broaden the mental vision of the student. The work for the year 1899 and 1900 is as follows:

PREPARATORY UNITED STATES HISTORY.—REQUIRED.

FIRST YEAR.—Fall term, History of United States, 3 hours per week.

Winter term, History of United States, 4 hours per week.

Spring term, Civil Government, 5 hours a week.

COLLEGIATE HISTORY.—ELECTIVE.

Fall term, The Colonial Period and the Formation of the Union, 4 hours.

Winter term, The Period of Slavery Agitation 4 hours.

Spring term, The Civil War and the Reconstructed Nation, 4 hours.

The Epochs of American History will be used as guides in the study of the above courses.

SPECIAL ELECTIVES.

Fall term, History and Study of United States Constitution, 3 hours; Territorial Expansion of the United States, 2 hours; Coinage Legislation since 1789 in the United States, 3 hours.

Winter term, A Comparative Study of State Constitutions, 3 hours; Economic and Political Effects of Immigration, 2 hours; Important Tariff Laws of the United States, 2 hours.

Spring term, The History of Political Parties in the United States, 3 hours; The Spoils System and Civil Service Reform, 2 hours; Money and Banking, 3 hours.

In the Special Electives, the Madison Papers,

The Federalist, Poore's Constitutions and Charters, American State Papers, Reports of Directors of the United States Mint, the Congressional Globe and Record will be used in connection with the standard histories. The volumes of Bancroft, Rhodes, Von Holst, Schouler, Pitkin, and the American Statesman series are constantly at hand for reference. Hamilton's, Jefferson's, Adams's, Clay's, and Calhoun's Works are always accessible and often used.

For further particulars see "Course of Study."

POLITICAL ECONOMY.

Fall Term, The Elements of Political Economy, Part I, 3 hours.

Winter term, The Elements of Political Economy, Part II, 3 hours.

The work outlined above is required in the Collegiate Department. Laughlin's book will probably be the text used. The fundamental principles of the subject will be studied in the first term, followed in the second term by their practical application to the questions of to-day.

ELECTIVE POLITICAL ECONOMY.

Fall term, The History of Political Economy, 3 hours.

Winter term, Economics, 3 hours.

Spring term, Co-operation and Profit Sharing, 3 hours.

The works of Adam Smith, Ricardo, Malthus, John Stuart Mill, Roscher, and others will be examined in the first term. Hadley's Economics will serve

as a text-book in the winter term. F. A. Walker's Political Economy and Marshall's Principles of Economics will be used as references. Some phase of the Labor Question will be studied in the third term, Co-operation and Profit Sharing will be the subject investigated in '99, unless the class prefer to take up some other question.

MODERN LANGUAGES.

KATE CRANZ, ASSOCIATE PROFESSOR.

GERMAN.

The entire course offered in German covers a period of four years. The first two years are required of all students in the Philosophical and Scientific Courses. Two courses are offered as electives—a year of critical reading with conversation, and a year of composition with conversation. Only one course is offered each year, the courses alternating. The course in composition and conversation will be offered in 1899–1900.

PREPARATORY GERMAN.

First term, Grammar with Written Exercises, 5 hours per week.

Second Term, Grammar, 2 hours per week; Translation, 3 hours per week.

Third term, Translation, 5 hours per week.

COLLEGIATE GERMAN.

First term, Narrative prose, 4 hours per week.

Second term, Narrative prose, 4 hours per week.

Third term, Selections from Lessing, 4 hours per week.

ELECTIVE GERMAN.

1. A study of Scheffels' Ekkehard and Gœthe's Faust, 2 hours per week throughout the year; Conversation, 2 hours per week throughout the year.

2. Composition, 2 hours per week throughout the year; Conversation; 2 hours per week throughout the year.

The course in Conversation is open to all students who have finished the first two terms.

FRENCH.

The course in French is required of all students in the Philosophical and Scientific Courses.

First term, Grammar and written exercises, 4 hours per week.

Second term, Narrative prose, 4 hours per week.

Third term, Narrative prose, 4 hours per week.

Electives will be offered in this department later.

PHILOSOPHY AND PEDAGOGY.

PROFESSOR BROWN.

FIRST TERM.

1. *Psychology* (required.)

James' Psychology, Briefer Course, three recitations per week.

2. *Psychology* (elective.)

Ladd's Descriptive and Explanatory Psychology, three recitations per week.

3. *Logic* (elective.)

Mill's Logic or Sigwart's Logic, 2 hours per week.

4. *Philosophy* (elective.)

Watson's Selections from Kant, with readings from the critical works of Caird, Watson, and essays in philosophical magazines, two hours per week. This course will not be offered contemporaneously with Course Three, but may be substituted for it at the option of the instructor.

5. *Pedagogy* (elective.)

Fouillee's Education from a National Standpoint, four recitations per week.

SECOND TERM.

6. *Psychology* (required.)

Continuation of Course 1.

7. *Logic* (required.)

Jevons' Lessons in Logic, four recitations per week.

8. *Psychology* (elective.)

Continuation of Course 2.

9, 10. *Logic or Philosophy.*

Continuation of one of the alternative courses, 3 or 4, above.

11. *Pedagogy* (required for Pedagogical Degree.)

History of Education, Davidson's Greek Education, four recitations per week.

THIRD TERM.

12. *Pedagogy* (required for Pedagogical Degree.)

History of Education, Paulsen's German Univer-



Entrance—Front of Campus.

sities and Fitch's Thomas and Matthew Arnold, four recitations per week.

13. *Pedagogy* (required as above.)

Science of Education, Laurie's Institutes of Education, four recitations per week.

14. *Introduction to Philosophy* (elective.)

James' Will to Believe and other essays, three recitations per week.

15. *Logic or Philosophy* (elective.)

Sigwart's Logic or Bradley's Appearance and Reality, three recitations per week.

BIOLOGY AND GEOLOGY.

PROFESSOR CHAPIN.

ASSISTANT MISS LUCY WEETHEE.

This department embraces all the subjects properly belonging to Biology, together with Inorganic and Organic Geology.

The work in Zoology begins with the second year of the preparatory course, and the subject being assigned to the fall term, abundant opportunity is offered for field work. In addition to the material gathered by the members of the class, use is made of preserved marine types which are received from time to time for the purpose of dissection. Each student is required, also, to spend some time in the Zoological Museum, which contains many valuable specimens.

The student enters the laboratory at the very start, and such types are placed before him for exam-

ination and dissection as will led him, step by step, to correct habits of observation, by which he is enabled to comprehend the close relations of one form of life to another. As this work is in progress, the subjects under examination are fully discussed, and, on the completion of each dissection, the student is examined upon the work done. Drawings are required of the different parts and organs, in all cases. After a few types have been studied in the laboratory, the subject of classification receives careful attention, according to the plan followed in Chapin & Rettger's *Elementary Zoology and Laboratory Guide*. An advanced course in Zoology is offered in the college proper, and a scholarship has been established which insures free tuition and laboratory privileges at the Marine Biological Laboratory, Cold Spring Harbor, Long Island, to the student in this department doing the highest grade of work. The importance of the advantages thus secured cannot be overestimated, as the student is given abundant opportunity to study marine life amidst its proper environments. He will, to this end, be expected to assist frequently in dredging, for which a naptha launch is provided.

The course in Preparatory Physiology aims to give a good general knowledge of Anatomy and Hygiene, and the functions of the different organs. Occasional dissections are performed before the class, and some laboratory work is required of all. In the collegiate course this subject is studied by more advanced methods. Osteology receives close attention, and each student is expected to give some attention to dissection, besides making a practical study of a few histological structures. Physiological principles and theories are discussed according to the latest in-

vestigations; and, in this connection, experiments are performed in the laboratory. The department is supplied with a valuable skeleton and superb French anatomical models, (For more advanced work in Anatomy and Physiology, see Preparatory Medical Course.)

Elementary Botany is required in all the Preparatory Courses except the classical. Work begins with an observational study of germinating plantlets, all students being required to sow the seeds of several representative plants and to make careful drawings of the different stages of growth. Leaves, roots and stems are studied from the objects as far as practicable, and careful dissections of certain typical flowers precede the regular work of Systematic Botany. As time permits, the student is given some insight into the microscopic structure of plants by practical work in the laboratory. An herbarium of not less than forty plants will be required of all, or an equivalent in laboratory work. In the collegiate course the student is set to work at once with the microscope, the object being to secure a knowledge from actual observation of the general anatomy and physiology of plants. This is followed by work upon the Cryptogams, and all will be encouraged to make some special investigations for themselves.

The University is thoroughly equipped for work in General Biology, a required subject in all the collegiate courses. A biological laboratory has recently been completed and fitted up with modern apparatus, including a steam sterilizer, fine optical appliances, dissecting instruments, water bath, paraffin bath, CO² freezer, etc. The student is given practical training in Microscopy, and is taught the process of staining and how to prepare permanent mountings. It is the

intention to give a thorough knowledge of the structure and mode of growth of typical plant and animal forms, and the laboratory work is accompanied with lectures, in which the composition of organisms, methods of reproduction, development and other biological subjects are discussed.

At an early stage of the work in Geology, such objective study of minerals is pursued as will enable the student to comprehend the composition of rocks, which is next taken up. To supplement the text, lectures may be given from time to time upon dynamical, structural and paleontological Geology, and these subjects are further studied in the field. Work is also offered in determinative Mineralogy. A large cabinet of minerals is open at all times to the student of Geology.

Works of reference: Bessey's Botany, Goodale's Physiological Botany, Gray's Structural Botany, Wolle's Diatomaceæ of N. A., and Desmids of the U. S., Strasburger's Manual of Vegetable Histology, Goebel's Outlines of Classification and Special Morphology, Vine's Physiology of Plants, DeBary's Comparative Anatomy of Phanerogams and Ferns, Huxley and Martin's Biology, Sedgwick and Wilson's Biology, Claus and Sedgwick's Zoology, Packard's Zoology, Hertwig's General Principles of Zoology. Lang's Vergleichende Anatomie der Wirbellosen Thiere, Landois's Physiology, Foster's Physiology, Stirling's Histology, Piersol's Histology, Shafer's Essentials of Histology, Carpenter's The Microscope, Frey's Microscopical Technology, LeConte's Elements of Geology, Dana's Manual, Dana's Mineralogy, Crosby's Mineralogy, Lyell's Principles of Geology, Geikie's Text Book of Geology, and Government Reports.

PREPARATORY MEDICAL COURSE.

It is desirable in many cases that students looking forward to the medical profession should, after spending four years in collegiate work, be admitted to advanced standing in the medical schools, whereby a year's time may be gained. With this object in view, the department of Biology now offers such work as is, in conjunction with Physics and Chemistry, recognized by the best of these schools the full equivalent of a year's professional study. The departments of Physics and Chemistry furnish abundant opportunities for the work required in that direction. The biological work is, from the very outset, suited to the needs of the medical student. To this end, it properly begins with General Biology, to be followed by a comparative study of animal forms and of phanerogamic and cryptogamic plants. The development of some vertebrate is closely studied, and preparations of embryos are required of each student. Throughout the course, close attention to laboratory work is insisted upon. Practical instruction is given in the preparation of microscopic objects, and the student is taught the technique of section cutting and mounting. A practical knowledge of Human Anatomy is obtained from the careful dissection of some mammal, the many resemblances to the anatomy of man, and the few differences, being continually referred to. Arrangements have been made whereby students of the University are allowed, under certain conditions, to attend post-mortem examinations and to assist in the work. The laboratory is provided with modern apparatus for accurate investigation of disease germs, and the student is therefore required to

do practical work in the all-important subject of Bacteriology.

Upon the completion of this course, the student may receive credit for one year's work in the regular course of study at the Medical College of Ohio, Starling Medical College, Columbus, and other medical schools; and graduates pursuing certain prescribed courses in this department will be admitted into the second year of the four years' course of study in the Medical Department of the University of Pennsylvania and Jefferson Medical College, upon presentation of a certificate signed by the professor in charge.

Among the works of reference to be found in the library may be mentioned Gray's Anatomy, Quain's Anatomy, Holden's Anatomy, Landois and Sterling's Physiology, Foster's Physiology, Foster and Langley's Practical Physiology, Foster and Langley's Embryology, Hertwig-Mark's Text-book of Embryology, Lehrbuch der Vergleichenden Entwicklungsgeschichte (Korschelt & Heider), Minot's Human Embryology, Wilder and Gage's Anatomical Technology, Wiedersheim's Comparative Anatomy, Sternberg's Bacteriology and standard tests and guides in Histology. The following subjects are comprehended in this course: General Biology, Zoology, Mammalian Anatomy, Human Anatomy, Histology, Physiology, Structural and Systematic Botany, Vegetable Histology, Embryology and Bacteriology.

PHYSICS AND ELECTRICITY.

PROFESSOR ATKINSON.

ASSISTANT, MR. F. H. SUPER.

1. Elementary Physics.

This work is required in the first and second terms of the third preparatory year in all the courses giving a degree. Hall and Bergen's Text Book of Physics will be used as a guide. Recitations three times a week, laboratory work six hours a week.

2. General Physics.

This course is required throughout the Junior year of the Scientific course, and is open as an elective to students in other courses, provided they have the preparation required of students regularly in this course. In all cases a knowledge of Chemistry will be essential, but this may be acquired by entering the course in Chemistry marked in the Sophomore year. No one will be permitted to begin this course until he has completed the course in Mathematics to and including Plane Trigonometry. The instruction is given by means of lectures, with experimental demonstrations and individual laboratory work. As an outline of lecture work, Ames' Theory of Physics will be used, though references to numerous works on Physics, particularly on special subjects in Physics, will be given as supplementary to the text. The laboratory portion of the work will be adapted to the requirements of Junior students and will presuppose the work in Course I, or its equivalent. Lectures three times a week, laboratory four hours a week.

3. *Physical Laboratory.*

This will be a special elective course in heat and light, open to those who have already had 1 and 2. Laboratory four hours a week for the first term.

4. *Physical Laboratory.*

This is elective, and will be open on the same terms as 3. The course consists of exact measurement in electricity and magnetism. A very excellent special laboratory is now used for the work of this course, and the aim is continually to improve the facilities. Nichols, Stewart and Gee, Kempe, Carhart and Patterson, and Ayrton will be used as references. Lectures twice a week. Laboratory six hours a week during second term.

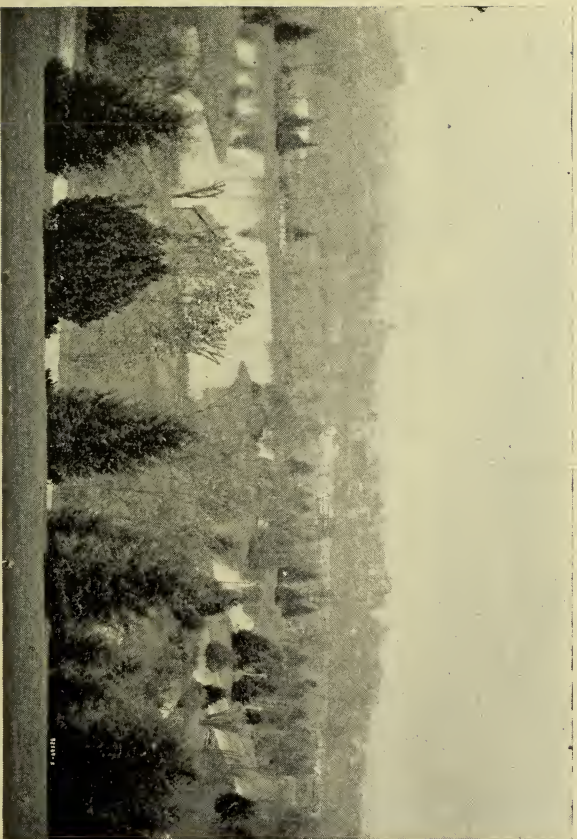
5. *Physical Laboratory.*

This is an elective course given in the third term, consisting of a study of dynamo-electric machines to the end of determining and platting their characteristics, efficiency, etc. Lectures twice a week. Laboratory six hours a week.

The fees for laboratory privileges are subject to adjustment.

ELECTRICAL ENGINEERING.

The rapid development of electricity for the purposes of light and power, and its general introduction into all sections of the country, have created a demand for men well qualified in this branch of engineering. The profession now offers excellent opportunities to young men, and the field is so broad that the chances for rapid promotion are very flattering to



View of the Lake.

those properly qualified. The thoroughly educated man who combines practical experience with his theoretical knowledge of electricity and magnetism is in special demand; for many now engaged in this work are poorly fitted for its duties. The college does not lose sight of the fact that mind training is its chief business. Yet it is the guiding principle of this department that the education of the mind is none the less efficient for making use of the tools for this purpose which may at the same time be applied by the trained mind to earning a livelihood. We hold that, instead of being opposed, these two features are correlative.

The college possesses an excellent incandescent lighting plant, used for lighting the buildings and campus, with the design of extending to the student practical training in the construction, operation, and care of electrical and steam machinery. The plant, though at present not large, is nevertheless modern in all its parts, and meets our present requirements for light and power quite satisfactorily. However, it is the intention soon to put in a very material addition to the equipment in this line. Both direct and alternating currents are used. The switches and fittings on the board, wiring, and general installation, are all the work of students. Modifications and extensions from time to time give others excellent opportunities to obtain valuable practice.

The electrical profession requires a great deal of mechanical ability and training in the use of tools for both wood and metal. The department is provided with shops for both, a large forge and lathe-room having been recently provided in the basement of the new Administration Building as a further addition to our

facilities in this direction. These shops are provided with wood and metal working lathes, and a complement of the necessary small tools. Additions to the shop facilities are being made continually. As will appear from the course outlined below, while mastering the use of tools, the student is taught the construction of useful pieces of apparatus for laboratory purposes. The ability thus to construct apparatus and machinery, to preserve the proper relations of the several parts in fitting them together, and in overcoming difficulties that may arise in embodying one's ideas, has a very great educational value aside from its practical aspect.

Below is indicated the course of study in this department. To this is added, however, seminary work with references to the leading treatises on electricity and engineering. Periodicals, such as the Electrical Review, Electrical Engineer, Electrical World, Power, Scientific American and Supplement, Electricity and Engineering Magazine, are kept on file easily accessible, and are included in the seminary references. For the practical plant work each division of those in this course is now on duty one night in each week. Each engineer is required to keep a record of steam pressure and of the current of each machine at regular intervals. There is co-operation also with the city arc-light plant, and an additional night in each week is spent in learning its care and operation under competent supervision. The student in all this work is taught to operate the plant with the object of attaining its highest efficiency, and to study the greatest economy in the use of all supplies for consumption.

Requirements: This work is elective as a whole, and those taking it must pursue the course regularly

in its order unless a portion of it has been previously taken. Hereafter no one will be permitted to begin the theoretical portion of the work until he has passed the first and second terms of algebra as indicated in the second year of the preparatory course, and has completed the three terms of English marked in the preparatory course; this includes two terms of literature and one of Rhetoric. However, those not prepared in these branches may be permitted to take up the practical portion of the course, including plant practice, shop work, free hand and mechanical drawing, while making up this work. The higher branches, including Analytical Geometry, Calculus, and Analytical Mechanics, are strongly recommended to students in Electricity, though not absolutely essential to this course. Physics and Chemistry are required as indicated. When the regular electrical course and the auxiliary studies are completed, a certificate will be issued showing the character of the work done. Also, where it is deserved, a recommendation will be issued showing the student's ability in theoretical and practical electricity. This course is subject to such changes from time to time as the development of the subject may dictate.

FIRST YEAR.

FIRST TERM.

Physics. Lectures and recitations three times a week. Laboratory work six hours a week.

Problems in Electricity. Calculations of resistance, potential, batteries, work, electro-magnets, dynamos, and motors. Four hours a week.

Shop work. Wood-turning, metal-boring, filing and polishing. Four hours a week with no credit.

Free-hand Drawing. Simple geometric solids, one and two views; outlines of simple geometric solids in perspective. Three hours a week.

Plant Duty. Operation of college incandescent and city arc stations. One night a week each.

Mechanical Drawing. Simple geometric drawing for neatness and accuracy in the use of instruments; lettering; use of scales. Three hours a week.

SECOND TERM.

Physics. Lectures and recitations three times a week. Laboratory work six hours a week.

Steam. General theory of the steam engine; theory and construction of details; dimensions for required power; indicators, theory and use; valve gears. Four hours a week.

Shop work. Metal-turning, bolt-cutting, and tapping. Four hours a week with no credit.

Free-hand Drawing. Outlines and shaded studies of geometric solids, single and grouped; outline and shaded studies of vase forms. Three hours a week.

Plant Duty. Operation and care of college and city stations. One night a week each.

Mechanical Drawing. Descriptive geometry; copying drawings. Three hours a week.

Mathematics. Four hours a week.

THIRD TERM

Electricity and Magnetism. General elementary theory; principles of construction and operation of dynamo-electric machines. Four hours a week.

Electric Lighting. Lectures and recitations on the principles and methods of wiring for light and

power; rules and regulations; plans and specifications. Four hours a week.

Shop work. Simple pieces of apparatus, binding posts, switches, etc. Four hours a week with no credit.

Plant Duty. Care and operation of college and city stations. One night a week each.

Free-hand Drawing. Three hours a week.

Mechanical Drawing. Copy work from engine and machine drawings. Three hours a week.

Mathematics. Four hours a week.

SECOND YEAR.

FIRST TERM.

Electricity. Lectures with references and recitations upon electrical engineering. Four hours a week.

Electric Railway (or equivalent.) Recitations upon general principles and practical aspects; plans and specifications. Four hours a week.

Shop work. Construction of simple laboratory apparatus. Four hours a week, no credit.

Mechanical Drawing. Working drawings and plans of machinery from actual parts. Three hours a week.

Plant Duty. Care and partial supervision of college and city stations; trimming and testing lamps. One night a week each.

Seminary. Investigation of assigned topics; written reports. One hour each week.

Mathematics or Chemistry. Four hours a week.

SECOND TERM.

Electricity. Alternating and polyphase currents. Four hours a week.

Electricity. Absolute measurements in electricity and magnetism. Lectures two times a week. Laboratory six hours a week.

Shop work. Miscellaneous construction work; design and construction of small motors and dynamos. Four hours a week, no credit.

Mechanical Drawing. Same as preceding term. Three hours a week.

Plant Duty. Same as preceding term.

Seminary. Same as previous term. One hour a week.

Mathematics or Chemistry. Four hours a week.

THIRD TERM.

Electricity. Testing dynamos for characteristics, efficiency, and regulation. Lectures two times a week. Laboratory six hours a week.

Electricity. Electrical transmission of power. Four hours a week.

Shop work. Same as preceding term. Four hours, no credit.

Mechanical Drawing. Same as last term. Three hours a week.

Plant Duty. Same as preceding terms.

Seminary. Same as preceding terms. One hour per week.

Mathematics, or an individual investigation. Four hours a week.

For next year there will be no charge for electrical laboratory, but students will be held responsible for all breakage and damage. The only charge for students in electrical engineering will be one dollar per term in addition to the regular contingent fee of three dollars.

Any one wishing to spend less time than two years will be required to pursue the course regularly so far as he goes. New light is given, and new opportunities appear very often from one year spent in the pursuit of this work. Inquiries concerning the course will receive prompt attention.

CHEMISTRY.

PROFESSOR HENDERSON.

In this department the following courses are offered:

1. *Elementary Inorganic Chemistry.*

This course extends over two terms and requires no preliminary study of the subject. The instruction consists of lectures, recitations, and laboratory experiments. Each student is assigned a desk in the laboratory, and performs for himself, under the constant direction of the instructor, the experiments described in the text. Many additional experiments of a more difficult kind are performed by the instructor upon the lecture table.

The aim throughout the course is to bring before the student such facts and phenomena as will enable him to clearly understand the fundamental laws of chemical science. Attention is also directed to the practical application of chemistry in the various arts and sciences. The subject is a recognized study in all courses, in the Sophomore year.

Text-book: Remsen's Introduction to the Study of Chemistry (Briefer Series); Remsen's Chemical Experiments.

Four hours Fall and Winter terms.

2. *Qualitative Analysis.*

This course embraces a systematic study of those reactions which are most often employed in detecting the presence of the more common bases and acids. The instruction is, for the most part, carried on in the laboratory, where the student is trained in the practical analysis of various substances, proceeding from those which are easily soluble in water and acids, to those which are insoluble, and to alloys and complex mixtures.

Open to those who have had Course 1.

Text-book. Noyes' Qualitative Analysis.

Four hours spring term.

3. *Quantitative Analysis.*

This course offers thorough training in the quantitative determination of inorganic acids and bases. The work in the first term is gravimetric, and in the second term volumetric. The student is trained in the various processes of weighing, preparation of substance in proper form for gravimetric determinations, preparations of standard solutions, chemical calculations, etc. As wide a range of analysis will be undertaken as time permits.

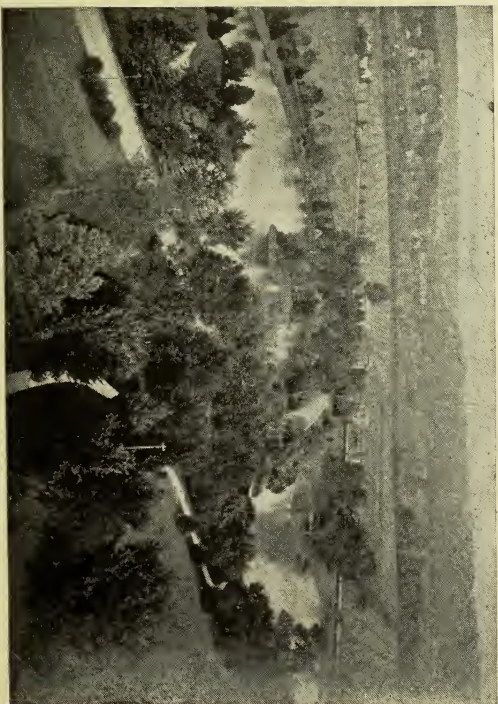
Open to those who have had Courses 1 and 2.

Text-book: Talbot's Qualitative Analysis.

Four hours fall and winter terms.

4. *Inorganic Preparations.*

This course is designed for those who, having taken Course 1, desire to acquire greater familiarity with the methods of preparation of the more common inorganic substances met with in laboratory work. A large number of such substances will be made by each



Boulevard Drive.

student, the particular compound selected being chosen because of some special interest in themselves, or as illustrating some general process in their preparation.

Along with the work in the laboratory, lectures will be given once a week reviewing the subject of inorganic chemistry, and especially emphasizing the class similarities of the elements as grouped by the periodic law.

Open to those who have had Course 1.

Text-book: Thorp, *Inorganic Chemical Preparations*.

Three hours spring term.

5. *Organic Chemistry.*

This course is intended to be an introduction to the study of organic chemistry, and is designed especially for those who intend to enter upon advanced study of chemistry, or upon biological or medical courses. It embraces an elementary study of the more common compounds of carbon, special attention being directed to the classification of such substances, and to a clear presentation of their structure.

Open to those who have had Course 1.

Text-books: Remsen's *Organic Chemistry*; Orndorff's *Laboratory Manual*.

Four hours fall term.

6. *Physiological Chemistry.*

This course is especially arranged for such students as have the profession of medicine in view. It is, in general, a continuation of Course 5, in which special attention is given to a consideration of such substances as possess physiological significance, or toxicological properties.

In the laboratory, the work consists of water

analysis, of the chemical examinations of various animal products such as blood, urine, and stomach fluids, and of chemical tests for various poisons. It is the aim of the course to give practical experience in such chemical examinations as are commonly demanded in medicine, and to make them intelligible to the student from the chemical standpoint.

Open to those who have had courses 1 and 5.

Four hours winter and spring terms.

The chemical department has been given all of the space on the second floor of the main building; and thus enlarged, it will be amply provided with the desk-room necessary for carrying on the various courses in a satisfactory manner. When fitted up for use, it will include a general laboratory for elementary work, an analytical and an organic laboratory, weighing room; gas analysis room, two stock rooms, lecture room, private office and laboratories.

The laboratories are furnished with gas, water, and electricity, and the department is well equipped with apparatus and appliances sufficient for carrying on the courses outlined above.

ELOCUTION AND ORATORY.

CATHARINE A. FINDLEY, ASSOCIATE PROFESSOR.

The design of this department is to make good conversationalists, good readers, good speakers. The ideal speaker must not only instruct his hearers, but he must persuade them and move them to action. His power,

apart from the importance of his subject, lies in his personal magnetism, which depends largely on the measure of his sympathies. That which the speaker has to impart to his audience of *his personal experience at the time of speaking* persuades his hearers and moves them to action.

The constant effort made in the reading lesson to put ourselves in rapport with the author; to see what he sees and feel what he feels, develops and controls our own imaginative and emotive powers. Our voices and our bodies become instruments of communication between us and our hearers. Now, then, comes the need for training. Believing that the voice is simply a medium for the soul's emotions, we develop it to its greatest extent of power, flexibility and beauty, that it may more powerfully set forth these emotions.

But we do not stop here. There is a language, more eloquent than words—the language of the eye the hand, the plastic form. Nor can these be separated from the voice. When we are stirred to speak, the face lights up, the chest expands, the whole body becomes infused with new life, and speaks a language more eloquent than words.

That master of expression, Francois Delsarte, spent his life in the study of human nature as exhibited in unconscious action—especially of the southern nations, who gesticulate more freely than we do—and from the study he deducted a method by which we train the whole muscular system to respond to every change of the soul's emotions.

The course then, will include, in connection with the study of literature, the development of the voice

and the training of the form according to the Delsarte method.

First Term.—Physical culture, development of the voice, inflection, phrasing and expressive reading, using Curry's Classic Selections as a text-book.

Second Term.—Development of the voice, articulation and pronunciation, with use of the same text-book.

Third Term.—Æsthetic gymnastics for relaxing, energizing and directing muscular force; gesture begun; the use of a dramatic classic as a text-book.

Fourth Term.—Gesture continued with use of a dramatic classic as a text-book.

Two declamations or orations per term will be required from each student.

An elective, consisting of the dramatic rendering of a Shakespearian drama, will be offered during the middle term of the Senior year to those who have completed the courses in Literature and Elocution.

VOCAL AND INSTRUMENTAL MUSIC.

LULA C. KING AND NELLIE H. VAN VORHES, INSTRUCTORS.

The Board of Trustees have recently added a course in Music without determining precisely what its relation to the other departments should be. This course for the present is as follows:

- a. Chorus and Sight reading.
- b. Voice Culture.
- c. Piano and Theory.

Under the first, the work is distributed into ele-

mentary instruction on the lines and spaces as representing sounds; notes as representing quality; the clefs, rythm, the diatonic major scale. Further lessons in dictation in connection with blackboard exercises for the purpose of familiarizing the student with the simplest succession of tones and rythmic form. Next the interval system. Here progressive exercises are used in order to familiarize the pupil with the various intervals, and particular attention is given to correct intonation and purity of tone. Finally, the theoretical and practical development of the major and minor scales, followed by exercises in the use of both modes.

With students of the second grade the matter in the first is recapitulated. This is followed by solfeggio exercises in two parts on the compositions of ancient and modern masters. Pupils of the third grade study three and four part compositions in which special stress is laid on the acquisition of a correct pronounciation of both vowel and consonant sounds.

Under the head of Voice Culture, instruction is given upon the correct position while singing; the position of the mouth, tongue and larynx; the manner of attacking and leaving a note; the manner of forming pure notes in the different registers. and of connecting tones without slurring. Next in order are respiratory exercises in which the pupil is taught how to acquire a long, noiseless and easy breathing by slow inhalations and exhalations. These are followed by exercises in scales, runs, trills and other embellishments. The laws of expression as set forth in the words of old and modern masters are also studied. Last in order is the expression of vowel and consonant

sounds. The pupil is taught how to pronounce distinctly without injuring the purity of the vocal tones.

PIANO.

This instrument is studied in the following order:

First Grade—Doerner's Technical Exercises, Grade 1; Kohler's Studies, opera 151, 157 and 50; Loeschorn's Studies, opus 84, Nos. 1 and 2; Diabelli's Studies, opus 125; sonatinas and easy pieces by Lichner, Spindler, Reinke and Kohler.

Second Grade.—Doerner's Technical Exercises, Grades 1 and 2; Lebert and Stark, vol. 2; Loeschorn's Studies, opus 66, No. 1; scales, major and minors in thirds and sixths; broken chords and arpeggios both major and minor; Studies by Hiller, opera 45 and 46; Sonatinas and the easier pieces of Kullak, Clementi, Kohler and Scharwenka; Brethorn's Rondo in C major and Brethorn's Variations, opus 3.

Third Grade.—Doerner's Technical Exercises, Grades 1, 2 and 3; Kullak's first book of octave studies; Czerny's Velocity Studies; Cramer's Studies; Bach's Inventions in two and three voices; Schuman's Compositions; Mendelssohn's Songs Without Words, and Sonatas by Mozart and Haydn.

Fourth Grade.—Doerner's Technical Exercises, Grades 1, 2 and 3; Kullak's second book of octave studies; Tausig's Daily Studies; Czerny's Daily Studies; Gradus and Parnassum, by Clementi; Bach's Well-tempered Clavichord; Mendelssohn's Songs without Words. Finally, Mozart and Beethoven's Concertos, together with compositions by old and modern masters.

All the pupils in this department are required to take the complete course in Harmony contained in

Classes A and B of Broekhoven's System of Harmony. The requirement for the pupils in vocal music is limited to class A. Students' recitals will be given in the college chapel each term, in which all who are qualified will be expected to take part. The value of such practice need not be dwelt on here.

With a view to encouraging the systematic study of music it may be taken as an elective on the same conditions as those provided for other electives. Music, if properly studied, has an educational value nearly or quite equal to that of any other branch. But it is of far less importance to be a fine player than an intelligent judge of good music. Those who wish to become performers will be accommodated as far as possible, but the chief attention of the teachers will be directed towards the attainment of genuine musical culture.

Students who have had three years of lessons on the piano, two per week, and one of theory, or an equivalent, may be excused from all language study in the Preparatory Department. Musical theory shall constitute one study and may be pursued as long as the student desires to do so. Those who take two lessons per week in instrumental music or vocal training may receive credit for 75 hours' elective work per year. A good knowledge of English will be insisted on. Those who attain a sufficient degree of proficiency in music may receive a certificate in addition to their diploma.

Among the text-books used will be Behnke's Mechanism of the Human Voice; Behnke & Browne's Voice, Speech and Song, and The Child's Voice; Elson's German Song and Song Writers; Fay's Music Study in German; Fetis's Music Explained to the

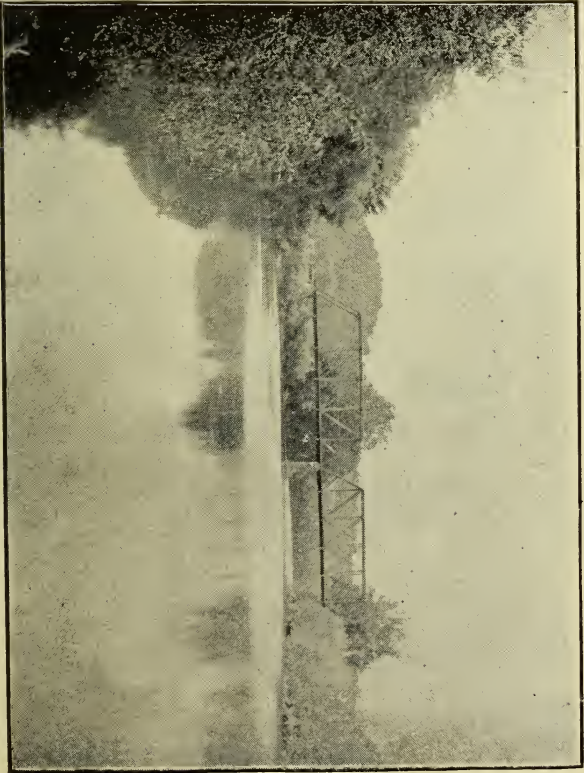
World; Goodrich's Music as a Language, and Complete Musical Analysis; Hand's Aesthetics of Musical Art; Upton's Standard Operas and Oratorios; Biographies of the Great Musicians by Nohl and by Hueffer; Ritter's History of Music; Musical Acoustics by Broadhous; Grove's Dictionary of Music and Musicians, etc.

A comparison of the above course with any other in the country will show that it is surpassed in excellence and thoroughness by none and equaled by few. Those who complete it will not only have an intelligent comprehension of music both in itself and its relation to the other arts of civilization, but will possess an excellent education in addition. A musical literary club meets once in two weeks for the study of the literature and history of music.

DRAWING AND PAINTING.

SARAH STINSON, INSTRUCTOR.

It is the aim of this department to give a practical knowledge of art, and to lead pupils, through the cultivation of their observing powers, to an appreciation and love of the beautiful as found in nature and expressed in the handiwork of man. As form-study and drawing furnish the foundation for this course of instruction, special attention is given to that part of the work. No pupil will be allowed to take painting who has not had at least three terms of drawing. Charcoal is the medium chosen, and all drawings must be made from the object. Pencil and pen and ink may be used in advanced grades. Instruction in out-of-door sketching will be offered dur-



Along the Hocking.

ing the spring term to those who have completed five terms in charcoal drawing.

The course of instruction is as follows:

First Grade.—(1) Outlines from geometrical solids. (2) Shaded studies from geometrical solids. (3) Outlines and shaded studies from still life. (4) Outlines and shaded studies from features.

Second Grade.—(1) Outlines for elementary blocked heads. (2) Detached features of the face, hands and feet in outline. (3) Detached features of the face, hands and feet shaded.

Third Grade.—(1) Outline from advanced blocked heads. (2) Masks in outline. (3) Masks shaded. (4) Busts in outline and shaded the size of the original.

Fourth Grade.—(1) Outline from life. (2) Shaded studies from life.

PAINTING.

First Grade.—Still life objects, single and in groups.

Second Grade.—Still life in draperies.

Third Grade.—(1) Studies from nature. (2) Studies from life.

COMMERCIAL DEPARTMENT.

C. M. COPELAND, INSTRUCTOR.

This work is arranged to meet the large demand on the part of regular as well as special students for instruction in the commercial studies. It is recognized that a course in this department is not all of an education, but a very useful and important part. The regular student has an opportunity during his college course to obtain a knowledge of business rules and

customs which will be invaluable to him when he afterwards goes into business or enters a profession. The special student, who takes only this work, has the same advantages of library, reading room, literary societies, etc., as regular students, and may enter any of the regular or preparatory classes without extra charge. Moreover, the special student finds contact with the general college work helpful and inspiring. A reasonable amount of credit on any of the regular courses will be given to college students for this work.

COURSE I.—BUSINESS.

1. THEORY OF ACCOUNTS. Five hours per week for two terms. Ample practice is given in the systems of accounts used in the various kinds of business from retailing to modern banking. It is the aim of this course to give the student a wide acquaintance with business methods and to secure proficiency in opening and closing books, journalizing, rendering statements, tracing errors, analyzing accounts, and drawing business papers.

2. ACTUAL BUSINESS AND OFFICE PRACTICE. Five hours per week for one term, and open to students who have taken Theory of Accounts. This work is on the inter-collegiate communication plan, and the transactions are with students of other colleges. The business correspondence growing out of purchases, sales, remittances, and collections, making settlements and adjusting accounts, carried on with a number of advanced students in other cities, each one doing best for his school, must certainly develop a high grade of efficiency in all the student's work.

3. COMMERCIAL LAW AND BUSINESS FORMS. Each

two hours per week for one term. This work deals mainly with the subjects of contracts, agency, partnership, sales, and negotiable paper, and is intended to give the student an acquaintance with the principles that govern business transactions.

COURSE II.—STENOGRAPHY.

MABEL K. BROWN, INSTRUCTOR.

It is the aim of this course to teach the subject thoroughly, rather than to turn out so-called stenographers in a few months. Special attention is given to the fundamental principles of the art, as this method is believed to lead to greatest saving of time in the long run. Special inducements are offered to students intending to make law or medicine their profession to fit themselves to take notes at lectures. While the regular course is intended to cover ten months, or the whole college year, students showing special ability are encouraged and helped to finish the course in a shorter time.

First Term.—Fundamental principles of Stenography; drill in writing and reading words, sentences, and simple reading matter.

Second Term.—Principles of abbreviation, dictation for speed practice, study of business and legal forms.

Third Term.—Review of principles of outline formation, dictation of miscellaneous matter.

TYPEWRITING.

In typewriting the first months of the course are spent by the student in acquiring a correct method of fingering. Business letters and legal forms are next

taken up, followed by practice leading to high speed. As soon as practicable the student is expected to transcribe neatly and quickly the notes he has taken from dictation. Punctuation and the correct use of capitals are taught throughout the course.

Students may enter either course at the beginning of any term. Those who complete either course as outlined above will be granted a certificate, for which a fee of \$3.00 is charged. The tuition is \$5.00 and contingent fee \$3.00 per term for each course; tuition and contingent fee for both courses taken at the same time, \$13.00 per term.

The books and supplies for Course I cost about \$2.75 per term; for Course II about \$1.25.

Courses of Study

IN

Collegiate Department.

In the following scheme, the figures in parentheses indicate the number of exercises per week. It is believed that the four courses given below are equal in educational value, and all require 2500 hours of classroom work for their completion. The required work in each course is about 1500 hours. Each student is expected to select the remaining 1000 hours from the electives offered in the various departments.

REQUIRED SUBJECTS FOR THE DEGREE OF BACHELOR OF ARTS.

FRESHMAN YEAR.

Fall Term—Greek (4); Latin (4); Solid Geometry (4); Political Economy (2).

Winter Term—Greek (4); Latin (4); Algebra (4); Political Economy (2).

Spring Term—Greek (4); Latin (4); Plane Trigonometry and Surveying (4).

SOPHOMORE YEAR.

Fall Term—Greek or Latin (4); Chemistry (4); European History (3).

Winter Term—Greek or Latin (4); Physiology (4); Chemistry (4).

Spring Term—Greek or Latin (4); Biology (4); European History (3).

JUNIOR YEAR.

Fall Term—English Literature (4); Psychology (3).

Winter Term—Elocution (3); Psychology (3).

Spring Term—English Literature (4); Elocution (3).

SENIOR YEAR.

Fall Term—Advanced Botany or Geology (4).

Winter Term—Logic (4); Astronomy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF
BACHELOR OF PHILOSOPHY.

FRESHMAN YEAR.

Fall Term—Latin (4); German (4); Solid Geometry (4); Political Economy (2).

Winter Term—Latin (4); German (4); Algebra (4); Political Economy (2).

Spring Term—Latin (4); German (4); Plane Trigonometry and Surveying (4).

SOPHOMORE YEAR.

Fall Term—French (4); Chemistry (4); European History (3).

Winter Term—French (4); Chemistry (4); Physiology (4).

Spring Term—French (4); Biology (4); European History (3).

JUNIOR YEAR.

Fall Term—English Literature (4); Psychology (3).

Winter Term—Elocution (3); Psychology (3).

Spring Term—English Literature (4); Elocution (3).

SENIOR YEAR.

Fall Term—Advanced Botany or Geology (4).

Winter Term—Logic (4); Astronomy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF BACHELOR OF SCIENCE.

FRESHMAN YEAR.

Fall Term—Latin (4); German (4); Solid Geometry (4); Political Economy (2).

Winter Term—German (4); Latin (4); Algebra (4); Political Economy (2).

Spring Term—German (4); Latin (4); Plane Trigonometry and Surveying (4).

SOPHOMORE YEAR.

Fall Term—French (4); Chemistry (4); Trigonometry (4); European History (3).

Winter Term—French (4); Analytical Geometry (4); Chemistry (4).

Spring Term—French (4); Biology (4); European History (3).

JUNIOR YEAR.

Fall Term—Physics or Mechanics (4); English Literature (4).

Winter Term—Physics (4); Psychology (3); Elocution (3).

Spring Term—Physics (4); Psychology (3); Elocution (3).

SENIOR YEAR.

Fall Term—Advanced Botany or Geology (4).

Winter Term—Logic (4); Astronomy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF
BACHELOR OF PEDAGOGY.

FRESHMAN YEAR.

Fall Term—U. S. History (4); Solid Geometry (4); Political Economy (2); A Foreign Language (4).

Winter Term—U. S. History (4); Algebra (4); A Foreign Language (4); Political Economy (2).

Spring Term—U. S. History (4); Plane Trigonometry and Surveying (4); A Foreign Language (4).

SOPHOMORE YEAR.

Fall Term—A Foreign Language (4); European History (3).

Winter Term—A Foreign Language (4); Physiology (4).

Spring Term—A Foreign Language (4); Biology (4); European History (3).

JUNIOR YEAR.

Fall Term—A Foreign Language (4); English Literature (4); Psychology (3).



Biological Laboratory.

Winter Term—A Foreign Language (4); History of Education (4); Elocution (3); Psychology (3).

Spring Term—A Foreign Language (4); English Literature (4); History of Education (4); Elocution (3).

SENIOR YEAR.

Fall Term—Psychology (3); English Literature (4).

Winter Term—Logic (4); Astronomy (4).

Spring Term—Science of Education (4).

PREPARATORY DEPARTMENT.

ELI DUNKLE, PRINCIPAL.

This department is designed to prepare students for the regular courses of the college. Students are also received who wish to pursue elementary studies, even though they may have no intention of entering one of the higher courses.

Candidates for admission to this department must furnish satisfactory evidence of good character, and must pass examination in Geography, Arithmetic, English Grammar, elementary U. S. History, and all studies of the courses lower than those which they wish to pursue. Persons who have certificates from county examiners in Ohio will be admitted without examination in the subjects named above. But students who expect to graduate from the Normal department must give evidence that they are thoroughly familiar with the common school branches.

There are four preparatory courses, Classical, Philosophical, Scientific, and Pedagogical, each requiring three years for completion. and each leading to a corresponding course in the collegiate depart-

ment. For the benefit of teachers and others who wish a more thorough preparation for their work, classes in Arithmetic, Elementary Algebra, and English Grammar will be organized at the beginning of each term.

SUMMER TERM.

Experience has shown that a considerable number of young persons desire to profit by such opportunities for instruction as can be offered during the months of July and August. Accordingly a summer term will begin June 26, 1899, and continue six weeks. For this term the tuition will be six dollars, or for less than the entire term, one dollar per week. Most of the classes in the Preparatory department, but especially those in the common branches, will be organized during this term and will receive the same attention as during the rest of the year. Those students who have done advanced work or propose to do such, but who feel the need of reviewing the elementary branches, will do well to avail themselves of this opportunity. Students who desire to pursue advanced subjects during this term will be accommodated as far as possible; and will receive credit for them in the same manner as if taken at any other time of the year.

For further particulars address,

THE PRINCIPAL.

THE COURSES OF STUDY IN DETAIL.

LATIN.

FIRST TERM. Collar and Daniell's Beginner's Latin Book.

SECOND AND THIRD TERMS. Arrowsmith and Whicher's Latin Readings. Especial stress is laid on inflections and composition.

SECOND YEAR. Cicero's Orations. The orations usually read are the four against Catiline, Pro Archia, Pro Marcello, and Pro Ligario. A careful study of forms and syntax is an important part of this year's work.

THIRD YEAR. Vergil's Aeneid, Books I-VI. Grammar reviews, scansion and mythology. Collar's Latin Prose Composition.

GREEK.

FIRST AND SECOND TERMS. White's Beginner's Greek Book, with particular reference to inflections and sentence-writing.

THIRD TERM. Xenophon's Anabasis. Grammatical reviews and translation into Greek of easy prose.

FOURTH TERM. Anabasis continued through the fourth book. Jones' Greek Prose Composition.

FIFTH AND SIXTH TERMS. Homer's Iliad, Books I-V, omitting the Catalogue of Ships in Book II. Jones' Greek Prose. In this connection considerable time is given to the study of the Epic dialect.

ENGLISH.

FIRST TERM. Waddy's Elements of Composition and Rhetoric and Genung's Practical Rhetoric to Invention.

SECOND TERM. American Literature—Painter's Introduction to American Literature to page 164; Selections from Colonial and Revolutionary Writers;

Masterpieces from Franklin, Irving, Cooper, Bryant, and Poe.

THIRD TERM. American Literature continued—Painter completed; Masterpieces from Hawthorne, Lowell, Emerson, Longfellow, and Holmes; Essays and Discussions.

FOURTH TERM. British Literature—Pancoast's Introduction to English Literature to part IV; Masterpiece's from Shakspeare, Milton, Pope, Addison and Steele.

FIFTH TERM. British Literature continued—Pancoast completed; Masterpieces from Dryden, Johnson, Goldsmith, Burke, Wordsworth, Coleridge, Burns, De Quincey, Macaulay, Tennyson, Carlyle, and George Eliot, Essays and Discussions.

SIXTH TERM. Genung's Practical Rhetoric completed.

GERMAN.

FIRST TERM. Cook's Otto's German Grammar, and written exercises.

SECOND TERM. Cook's Otto, written exercises, and translation of easy narrative prose.

THIRD TERM. Translation of easy narrative prose.

MATHEMATICS.

FIRST TERM. Milne's Essentials of Algebra, entire text-book.

SECOND TERM. Wells' Essentials of Algebra, first nineteen sections.

THIRD TERM. Wells' Essentials of Algebra completed.

FOURTH TERM. Chauvenet's Plane Geometry, at least four books.

PHYSICS.

Two terms, 5 hours per week. Recitations 3 times a week. Laboratory work 6 hours per week, 3 hours in the laboratory being equivalent to one recitation.

Hall and Bergen's Text-book of Physics. Revised, will be used as a guide for the laboratory work, and also as an outline for the recitations. Full notes are taken in the laboratory, which are criticised, corrected and copied into a permanent book. The object is to teach laboratory methods of work and give opportunity to the student to acquire more or less skill in handling apparatus, while the recitation periods are devoted to the acquisition of the elementary principles of the subject.

PHYSICAL GEOGRAPHY.

This subject is required in all courses. Davis' Physical Geography is used as a text-book.

ZOOLOGY.

Considerable field work is done, and, in addition, preserved marine types are made use of for dissection. Students are expected to spend some time in the zoological museum. Chapin and Rettger's Elementary Zoology and Laboratory Guide is the text-book used

PHYSIOLOGY.

The text-book is Martin's Human Body, Briefer Course. The aim is to give a good general knowledge

of Anatomy and Hygiene and of the functions of the different organs of the body. More or less laboratory will be done.

BOTANY.

Field and laboratory work are a leading feature in this course. Each student will prepare a herbarium of not less than forty plants. Gray's School and Field Book of Botany is the text-book.

U. S. HISTORY.

Two terms: the first of 3 hours per week, and the second of 4 hours per week. Text-book, either The Student's American History by Montgomery, or Channing's Student's History of the United States.

CIVICS.

The fundamental principles of the subject are carefully explained, while at the same time the practical operation of the different local and state systems are compared. Especial attention is given to the government of Ohio. The growth of our national system is thoroughly investigated.

EUROPEAN HISTORY.

This subject is pursued three terms in the Second Preparatory Year.

FIRST TERM. Myers' Eastern Nations and Greece.

SECOND TERM. Allen's Short History of the Roman People.

THIRD TERM. Montgomery's Leading Facts of English History.

The aim is to give the student a general acquaintance with the leading persons, and the institutions, political and religious, with the literary and artistic movements; in general with the progress of civilization in its broader aspects. The method employed will be text-book, references to more comprehensive works, essay writing, map drawing, and lectures by the teacher.

PEDAGOGY.

FIRST TERM. Gordy's Psychology.

SECOND TERM. Quick's Educational Reformers.

THIRD TERM. Fitch's Lectures on Teaching.

DRAWING.

Required in all four courses. Two hours in the studio are considered equivalent to one recitation.

ELOCUTION.

Required work in all courses.

FIRST TERM. Physical culture, development of the voice, inflection, phrasing and expressive reading, using Curry's Classic Selections as a text-book.

SECOND TERM. Development of the voice, articulation and pronunciation, with use of the same text book.

Conspectus of Preparatory Courses.

FIRST YEAR—First Term.			
<i>Classical.</i>	<i>Philosophical.</i>	<i>Scientific.</i>	<i>Pedagogical.</i>
Beginning Latin..... 5	Beginning Latin..... 5	Beginning Latin..... 5	Beginning Latin..... 5
Rhetoric—Waddy..... 5	Rhetoric—Waddy..... 5	Rhetoric—Waddy..... 5	Rhetoric—Waddy..... 5
Physical Geography..... 5	Physical Geography..... 5	Physical Geography..... 5	Physical Geography..... 5
Drawing..... 1	Drawing..... 1	Drawing..... 3	Drawing..... 1
U. S. History..... 3	U. S. History..... 3	U. S. History..... 1	U. S. History..... 3
Second Term.			
Latin—Arrowsmith and Whicher..... 5	Latin—Arrowsmith and Whicher..... 5	Latin—Arrowsmith and Whicher..... 5	Latin—Arrowsmith and Whicher..... 5
English Literature..... 2	English Literature..... 5	English Literature..... 5	English Literature..... 5
Elocution..... 3	Elocution..... 3	Elocution..... 3	Elocution..... 3
U. S. History..... 4	U. S. History..... 4	U. S. History..... 4	U. S. History..... 4
Third Term.			
Latin—Arrowsmith and Whicher..... 5	Latin—Arrowsmith and Whicher..... 5	Latin—Arrowsmith and Whicher..... 5	Latin—Arrowsmith and Whicher..... 5
English Literature..... 5	English Literature..... 5	English Literature..... 5	English Literature..... 5
Elocution..... 2	Elocution..... 3	Elocution..... 3	Elocution..... 3
Drawing..... 2	Drawing..... 2	Drawing..... 2	Drawing..... 2
Civil Government..... 5	Civil Government..... 5	Civil Government..... 5	Civil Government..... 5
SECOND YEAR—First Term.			
Cicero's Orations..... 5	Cicero's Orations..... 5	Cicero's Orations..... 5	Cicero's Orations..... 5
Beginning Greek..... 5	History of Greece..... 5	History of Greece..... 5	History of Greece..... 5
History of Greece..... 5	Zoology..... 5	Zoology..... 5	Zoology..... 5
Algebra..... 5	Algebra..... 5	Algebra..... 5	Algebra..... 5



Shop—Electrical Department.

Second Term.

Cicero's Orations.....	5	Cicero's Orations.....	5	Cicero's Orations.....	5
Greek—Second Term.....	5	History of Rome.....	5	History of Rome.....	5
History of Rome.....	5	Physiology.....	5	Physiology.....	5
Algebra.....	5	Algebra.....	5	Algebra.....	5

Third Term.

Cicero's Orations.....	5	Cicero's Orations.....	5	Cicero's Orations.....	5
Anabasis.....	5	History of England.....	5	History of England.....	5
History of England.....	5	Botany.....	5	Botany.....	5
Algebra.....	5	Algebra.....	5	Algebra.....	5

THIRD YEAR—First Term.

Vergil.....	5	Vergil.....	5	Vergil.....	5
Latin Prose Composition.....	5	Latin Prose Composition.....	5	Latin Prose Composition.....	5
Anabasis.....	5	German.....	5	Psychology.....	5
Greek Prose Composition.....	5	Elementary Physics.....	5	Elementary Physics.....	5
Elementary Physics.....	5	English Literature.....	5	English Literature.....	5
English Literature.....	5				

Second Term.

Vergil.....	5	Vergil.....	5	Vergil.....	5
Latin Prose Composition.....	5	Latin Prose Composition.....	5	Latin Prose Composition.....	5
Homer's Iliad.....	5	German.....	5	History of Education.....	5
Greek Prose Composition.....	5	Elementary Physics.....	5	Elementary Physics.....	5
Elementary Physics.....	5	English.....	5	English.....	5
English.....	5				

Third Term.

Vergil.....	5	Vergil.....	5	Vergil.....	5
Latin Prose Composition.....	5	Latin Prose Composition.....	5	Latin Prose Composition.....	5
Homer's Iliad.....	5	German.....	5	Methods of Teaching.....	5
Greek Prose Composition.....	5	Gennung's Rhetoric.....	5	Gennung's Rhetoric.....	5
Gennung's Rhetoric.....	5	Plane Geometry.....	5	Plane Geometry.....	5
Plane Geometry.....	5				

† The figure after the name of a study indicates the number of recitations per week in that subject.

Ullom, Josephus Tucker, A. B.....Athens
 The above name should appear on page 82 among those of
 the class of 1898.

List of Students.

COLLEGIATE DEPARTMENT.

CLASS OF 1898.

Batterson, Frank John, A. B.....Wheelersburg
 Clark, John Lewis, Ph. B., B. Ped.....Downington
 Cornwell, Alma Elizabeth, Ph. B.....Athens
 Craig, Florence Maude, Ph. B.....Athens
 Henderson, John Frederick, A. B.....Rowland
 O'Brien, Charles Garnet, B. S.....Athens
 Scott, Winfield Kenath, Ph. B.....Athens
 Thomas, Orin Gould, B. Ped.....Hardwick, Vt.
 Tullis, Don Delano, Ph. B.....Athens
 Weethee, Lucy Wilkins, B. S.....Millfield
 Wickham, Ada Ann, Ph. B.....Glen Ullin, N. Dak.
 Woodworth, Carlos A., B. Ped.....Hanging Rock

SENIORS.

Bean, Lonzo Gardner.....Athens
 Bennett, Gilbert Abel.....Amesville
 Bennett, Newman Hall.....Jacksonville
 Hastings, Laura Matilda.....Athens
 Henson, Clarence Cherrington.....Clay
 Hooper, Dollie.....Athens
 Houston, Virginia Miller.....Warwick, N. Y.
 Kaler, Charlotte Rannells.....Athens
 Kohberger, Henry Paul.....Warwick, N. Y.

Koons, Stella Irene.....	Columbus
Morse, Bert Edmund.....	Athens
Roberts, John Ellis.....	Lysander

JUNIORS.

Bahrman, Harry Rockafeller.....	Warwick, N. Y.
Brown, Minnie Frances.....	Athens
Bryson, Charles Harvey.....	Glouster
Cline, Cecil Roy.....	Mt. Blanco
Fuller, Nellie Mary.....	Athens
Gibson, Elza Goodspeed.....	Athens
Irwin, Rochester.....	South Perry
Kaler, Mary Engle.....	Athens
MacLane, Arwillla.....	Toledo
Matheny, Charles Morris.....	Athens
Ogier, William John.....	Hamden Junction
Sheldon, Thomas Henry.....	Athens
Townsend, Mary Allen.....	Athens
Tullis, Flora Blanche.....	Athens
Wickham, Mabel Leona.....	Glen Ullin, N. Dak.
Williams, Joshua Handel.....	Jackson
Wilson, Mabel Zoe.....	Athens

SOPHOMORES.

Blackwood, Nelle Rosamond.....	Athens
Brown, William Allen.....	Athens
Casto, Dorr Clayton.....	Parkersburg, W. Va.
Casto, Lyllian.....	Parkersburg, W. Va.
Copeland, William Franklin.....	Tappan
Evans, Jacob Claire.....	Athens
Evans, Margaret Lucile.....	Athens
Horn, Bernice Le Roy.....	Medina
Lash, E. Rey, Jr.....	Athens
McLaren, James Walter.....	Marietta
Merwin, Erwin Clyde.....	Athens
O'Bleness, Mame.....	Athens
Paine, Howard Shepherd.....	Hamden Junction
Pickering, Nellie Marcus.....	Athens
Pickett, James Ernestine.....	Nelsonville

Riley, Martina Mary.....	Guysville
Smith, Charles Collins.....	Athens
Stearns, Clifford Heald.....	Washington, D. C.
Welch, Philip Johnson.....	Athens
White, Gershom Franklin.....	Hooksburg
Wilson, Blanche Nell.....	Athens
Witman, Dwight Newcomb.....	Athens
Wood, Mary Ellen.....	Athens

FRESHMEN.

Batterson, Mayme.....	Wheelersburg
Bishop, Robert Francis, Jr.....	Athens
Black, Margaret Geneva.....	Glen Ebon
Border, Daniel Webster.....	Hebbardsville
Caldwell, George Washington.....	Lottridge
Caldwell, James Everett.....	Canby, Cal.
Clements, Jerry Riley.....	Waverly
Conner, May Sherwood.....	Athens
Cooley, Guy Bower.....	Athens
Dew, Perley Leroy.....	Athens
Dixon, Floyd.....	Athens
Dodge, Mary Helen.....	Athens
Douth, Ida Helen.....	Athens
Gibson, Ned Curfman.....	Amesville
Gold, George Leonard.....	Sedalia, Mo.
Haddox, Corydon Haven.....	Athens
Hall, Jenna Rosalie.....	Logan
Hambleton, Benjamin Franklin.....	Hooksburg
Harris, Bess Putnam.....	Athens
Hedges, Fred Augustus.....	Athens
Henry, Francis Beardsley.....	Athens
Irwin, Algernon Charles.....	South Perry
James, Arthur Ellsworth.....	Wellston
Kelley, Emma Louise.....	Athens
Kirkendall, Emmett Royal.....	Athens
Lamb, George Franklin.....	Greencastle
Lash, William Ralph.....	Zanesville
Lewis, Mary Adelyn.....	Albany
Lovell, Lucile Spurr.....	Lathrop
Morgan, Thurman Leroy.....	Waverly
Neff, Mary Belle.....	Anvil

Neff, Nora.....	Anvil
*O'Bleness, Ralph Alphonso.....	Athens
Pilcher, Benjamin Luther.....	Canaanville
Rardin, Addie May.....	Athens
Rardin, Emmett Herman.....	Athens
Riley, Ethel Eleanor.....	Guysville
Roberts, Blanche.....	Millfield
Scott, Grace Greenwood.....	Athens
Scott, Paul Raymond.....	Athens
Sheldon, Walter Rice.....	Athens
Sheppard, Carl Dunkle.....	McArthur
Slattery, Mary L.....	Athens
Sprague, Jennie Edyth.....	Millfield
Wood, James Perry, Jr.....	Athens
Wood, John Vorhes.....	Athens

*Deceased.

IRREGULAR AND SPECIAL STUDENTS.

Alexander, Inez Boyd.....	Athens
Bishop, Nellie Adele.....	Athens
Burns, Esther Helen, A. B.....	Jackson
Carpenter, Roll Franklin.....	Athens
Chase, Bertha Ellen.....	Albany
Coe, Celia.....	Chauncey
Coe, Lettie.....	Chauncey
Cornell, Mary.....	Guysville
Craig, Florence Maude, Ph. B.....	Athens
Crawford, Mary Lanora.....	Scioto Furnace
Dalrymple, Marie.....	Athens
Dent, Bessie.....	Hebbardsville
Deshlie, Margaret Gertrude.....	Logan
Francis, Millie Belle.....	Athens
Fulton, Lula.....	Athens
Gillett, Bertha.....	Athens
Haddox, Lillie Love.....	Athens
Harley, Melvin Grant.....	Athens
Harley, Rosa May.....	Athens
Hogg, Virginia Susan.....	Huntington, W. Va.
Jones, Sylvia.....	Columbus
McKinstry, Grace May.....	Athens
Root, Edna Elizabeth.....	Athens

Ryan, Maud Mabel.....	Athens
Stanley, Myra Mabel.....	Hebbardsville
Switzer, Charles Henry.....	Gallipolis
Walker, Mary.....	Athens

THIRD PREPARATORY.

Bean, Harry Elijah.....	Athens
Beckler, Herbert Sheldon.....	Athens
Biddison, Cladius L.....	Glouster
Bingham, Lavina Maud.....	Athens
Bishop, Lenora Belle.....	Athens
Black, Flora Miriam.....	Glen Ebon
Browning, Elmer Ellsworth.....	Rutland
Bryson, Maurice Mason.....	Glouster
Cable, Clarence Wesley.....	Athens
Cave, Edward Ulysses.....	Lancaster
Cherry, Mae Lee.....	Orland
Clayton, Earl Sloane.....	Athens
Conner, Flora Terhune.....	Athens
Cooley, Samuel Alden.....	Athens
Cornwell, Sadie Tamzon.....	Athens
Courtright, Harry Frederick.....	Tappan
Dean, Amanda Melissa.....	Athens
Emory, Charles Merton.....	Flat
Gregg, William Rea.....	Winchester
Hambleton, Antrum Marion.....	Hooksburg
Hammond, Frederic Louis.....	Guysville
Headley, Sanford Alphonso.....	Jacksonville
Holcomb, Anselm Tupper, Jr.....	Portsmouth
Hooper, Olah Angell.....	Athens
Johnston, Ernest Ross.....	Hanesville
McCord, Horace Minor.....	Commercial Point
McGirr, Mabel.....	New Lexington
McPherson, Joseph Elwyn.....	Jasper
Mark, Mary Louise.....	Bloomingsburg
Matheny, William Martin.....	Athens
Matthews, Max Moses.....	Vinton
Micklethwait, Joseph Timmond.....	Portsmouth
Miller, Frank Brown.....	Westland
Miller, William Frederick.....	Portsmouth
Mutchler, Finley Guy.....	Rutland

Nease, Nannie Louise.....	Point Pleasant, W. Va.
Nunemaker, Tunis.....	Logan
Phillips, William Ring.....	Amesville
Pickering, Fred Stewart.....	Athens
Porter, Orla Cecil.....	Amesville
Prushing, David Thompson.....	Commercial Point
Rickey, Lester.....	Creola
Roach, Clarence Wayne.....	Athens
Roach, Nelle Ostella.....	Athens
Robbins, Henry Oscar.....	Mineral
Robinett, Stephen Edward.....	Marshfield
Root, Alexander.....	Big Run
Ross, Mabel Verda.....	Burlingame, Kansas
Russell, Nettie Gertrude.....	Lottridge
Seeds, Karl Milton.....	Commercial Point
Seeds, Otto Fenton.....	Commercial Point
Smith, Thomas Maynard.....	Rntland
Thomas, Mary Gwendolyn.....	Zanesville
Walsh, Anna Gertrude.....	Athens
Williamson, Lissa.....	Amanda
Williamson, Mark Hooker.....	Amanda
Winter, Samuel Guy.....	Crooksville

SECOND PREPARATORY.

Allen, Mary Besse.....	Hebbardsville
Bartlett, Harry Guthrie.....	Athens
Bennett, Charles William.....	Nelsonville
Beverage, Lorena Belle.....	Marshfield
Biddison, Thomas Garfield.....	Glouster
Biddison, William Talbert.....	Glouster
Biddle, Victor.....	Fisher
Bone, Pinckney S.....	Kinderhook
Brown, James Nelson.....	Albany
Brown, Mary Grace.. ..	Waverly
Carson, James Rollo.....	Tappan
Clements, Viva Filora.....	Waverly
Coultrap, Harry Mansfield.....	McArthur
Craig, Thomas Watson.....	Athens
Cuckler, Valca Valentine.....	Chase
Curtis, Grace Undine.....	Athens

Dailey, Orville Davis.....	Albany
Davis, Albert Sylvester... ..	Marshfield
Davis, Madora.....	Marshfield
Elder, Adam Griggs.....	Athens
Ely, Benjamin Franklin.....	Charity
Figley, Charles Clifford.....	Athens
Graham, Alva Clarence.....	Athens
Haddox, Louis Henry.....	Athens
Hatch, Henry Arlow.....	Frost
Heston, Frank M.....	Amesville
Higgins, Cyrus Dow.....	Athens
Hooper, George Eldon.....	Pleasanton
Hope, James Garfield.....	Athens
Hopkins, Hannah Jane.....	Downington
Hopkins, Kate Amanda.....	Downington
Howard, Clara Alma.....	Athens
Howard, Effie Luella.....	Athens
Imes, Leroy Laney.....	Marshfield
Jacobs, Anna Reese.....	Georgetown
Jacobs, Nell May.....	Georgetown
King, Nora Alice.....	Mineral
Koons, Herman Lloyd.....	Athens
Lash, Florence Alice.....	Athens
Linscott, Mary Eliza.....	Athens
Loomis, Edwin Lemmon.....	Enterprise
McDaniel, Charles Wilbert.....	Starr
Mohler, Nellie Blanche.....	Albany
Moore, Ernest Earle.....	Athens
Moore, Harry Rice.....	Athens
Perry, John Edmund.....	Beaumont
Powell, Flora.....	Broadwell
Preston, Lorenzo Perry.....	Athens
Roberts, William Jason.....	Lysander
Sackett, Florence Margaret.....	Athens
Six, Annie Gertrude.....	Chauncey
Smith, Stanley Emerson.....	Centerburg
Snow, Grace Leota.....	Athens
Thornton, Maud.....	Athens
Tinker, Frederick Huntington.....	Athens
Walsh, Emma Evelyn.....	Athens
Walsh, Stella Catherine.....	Athens



The Art Room.

Whipple, George Eldridge.....	Athens
White, Clarence Reno.....	Nelsonville
White Ennis Leslie.....	Hooksburg
Williams, Esther Vesper.....	Darlington, Mo.
Williamson, Frances.....	Amanda
Wilson, Minnie.....	Athens
Young, Evalene.....	Marshfield
Zimmerman, Emmett Walter.....	Albany

FIRST PREPARATORY.

Allen, Helen Sue.....	Hebbardsville
Allison, Ida.....	Marshfield
Angell, Mame Lydia.....	Hebbardsville
Arscott, Mary Elizabeth.....	Athens
Bailey, James Edgar.....	Coolville
Baker, Winifred Cleveland.....	Athens
Barker, Dolly Beatrice.....	Athens
Bennett, Jesse Edmund.....	Marchmont
Bennett, Orlando.....	Jacksonville
Bethel, Charles S.....	Athens
Bethel, Webb Garfield.....	Athens
Betts, Frank Cale.....	Carbondale
Biddison, Bertha Minnie.....	Glouster
Biddison, Bessie Winifred.....	Glouster
Biddle, Cleophas, Genevieve.....	Fisher
Biddle, Nancy Louise.....	Fisher
Bing, Eva Logue.....	Cheshire
Bingham, Harry Barker.....	Athens
Bobo, Ola Marie.....	Lysander
Boughton, Willis Arnold.....	Athens
Bowman, Charles Foster.....	Bartlett
Brickles, Ross.....	Athens
Brill, Leora Lena.....	Broadwell
Brooks, Fred Grant.....	Zelda
Brown, Harry.....	Athens
Burgess, Grace Jennie.....	Broadwell
Burgess, Mary Emma.....	Broadwell
Chappell, Dalton.....	Athens
Chappelle, Iola.....	Athens
Clester, William Albert.....	Grosvenor

Cone, Ida Bessie.....	Athens
Cooley, John Parker.....	Albany
Cuckler, James Walter.....	Chase
Curtis, Fannie.....	Amesville
Davis, Edith Louise.....	Athens
Drake, Winifred Walsh.....	Athens
Duncan, Burde Rebecca.....	Athens
Dye, Charles Gideon.....	Torch
Earhart, John Wayland.....	Athens
Edmundson, Clyde.....	Athens
Finsterwald, Homer Grosvenor.....	Athens
Foster, Hezekiah Franklin.....	Chester
Found, William McClellan.....	Frost
Fuller, Herbert Earle.....	Athens
Gordon, Josephus Malcolm.....	Rehoboth
Graham, Guy Edgar.....	Parkersburg, W. Va.
Green, Edna.....	Glouster
Gross, Charles William.....	Athens
Gross, Frederick Edward.....	Athens
Hartley, Cora Belle.....	Judson
Hatch, Murray.....	Frost
Hetzer Mentor.....	Tupper's Plains
Hewitt, Arthur William.....	Mineral
Hewitt, Vivian C.....	Mineral
Huhn, Lillie.....	McArthur
Hull, Edwin.....	Crossenville
Hummell, Edmund Ray.....	Carroll
Hunter, Linnie.....	Marshfield
Imes, Richard Price.....	Marshfield
Irwin, Jennie Margaret.....	Knoxville, Tenn.
Jack, Jesse Wallace.....	Chase
Johnson, Guy Aga.....	Chester
Jenkins, Jennie.....	Glouster
Jones, Alva Blanche.....	Glouster
Jones, Anna.....	Glouster
Jones, Albert Johnson.....	Athens
Jones, Frederick Lewis.....	Glouster
Josten, Arthur.....	Anthony
Josten, James Mathias.....	Athens
Kelley, Alma Frances.....	Athens
Kelley, Lewis Weitzel.....	Athens

Kistler, Jonathan Aaron.....	Carroll
Logan, Clade Landen.....	Athens
Long, Herbert.....	Athens
McBride, Grace Edna.....	Tupper's Plains
McCaughey, Charles Wilson.....	Fultonham
McCormick, Ida Marguerite.....	Athens
McDaniel, Mary.....	Athens
Martindill, William Clifford.....	McArthur
Matheny, Angie.....	Chauncey
Matheny, Charles Roy.....	Beaumont
Matheny, Lou Ella.....	Athens
Matheny, Marie Ethel.....	Athens
Matheny, William Alderman.....	Chauncey
Maullar, Frank Byron.....	Gillespieville
Mayhugh, Esta.....	Marshfield
Mills, Edward Allen.....	Athens
Moore, Emmett Augustus.....	Anthony
Morrison, Guy William.....	Pleasanton
Motter, Edwin Cameron.....	Gillespieville
Murphy, Thomas Garfield.....	Elliott
Parker, Wade Charles.....	Athens
Patterson, Mary Forestine.....	Hebbardsville
Perry, William Albert.....	Beaumont
Petitt, Rebecca May.....	Glouster
Pickering, Eunice Edson.....	Broadwell
Pierce, Morton.....	Anthony
Pinkerton, Elsie Geraldine.....	Athens
Place, Benoni Austin.....	Qualey
Poore, James.....	Berlin X Roads
Ratcliff, Heber Leonidas.....	Jackson
Reading, Laura Lorinda.....	Shade
Riley, Walter Emmett.....	Hull
Roach, Helen.....	Athens
Rochester, Alexander Sands.....	Athens
Rorick, Georgie Agnes.....	Athens
Rorick, Mabel Acker.....	Athens
Ross, Warren Lester.....	Mineral
Roush, Perl.....	Athens
Seaman, Ethel May.....	Broadwell
Secoy, Wilbur Marshall.....	Athens
Shannon, Alice.....	Mineral

Six, George Abraham.....	Chauncey
Smith, Blanche.....	New England
Smith, William Homer.....	Chauncey
Stage, William Addison.....	Athens
Stoltz, Alma Mary.....	Rushville
Stone, Mollie A.....	Youba
Sutton, Herbert Elza.....	Athens
Thompson, David Lewis.....	South Perry
Townsend, Charles Hopkins.....	Mt. Blanco
Warren, Samuel.....	Athens
Waterman, Carrie.....	Coolville
Weidman, James Millard.....	Athens
Weller, Frank Adelbert.....	Greenfield
Welling, James Reed.....	Chauncey
Williams, Anna Pearl.....	Shade
Wolfe, Eva.....	Carbondale
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Woodyard, Bliss.....	Chase
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Wrightsel, Bertha Ethel.....	New Plymouth

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	391
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	<hr/>
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Alumni Association.

Constitution.

ARTICLE I. This Association shall be called the "Alumni Association of the Ohio University."

ART. II. The Officers of the Association shall be a President, Vice President, Secretary, Treasurer, and an Executive Committee, consisting of three members, to be chosen annually.

ART. III. The annual meetings of this Association shall be held in connection with the Commencement exercises of the University.

ART. IV. The object of this Association shall be to cultivate fraternal relations among the Alumni of the University, and to promote the interests of our Alma Mater by the holding of social reunions, by literary exercises, or by such other means as the Association may, from time to time, deem best.

ART. V. Any member of the Faculty, and graduate of the University, also anyone who has spent three years in the college classes of the University, and has been honorably dismissed, may, by the payment of one dollar and the signing of the Constitution, become a member of this Association.

ART. VI. This Constitution may be altered or amended at any annual meeting, by a vote of two-thirds of those present at such meeting.

ART. VII. *Amendment.* The members of this Association shall each pay into its treasury an annual fee of one dollar, and the sum so paid shall be expended in defraying the expenses of the annual reunion.

OFFICERS OF THE ALUMNI ASSOCIATION FOR 1898-9.

President, T. R. Biddle, M. D., Class of 1891.

Vice-President, Della May Connett, Class of 1897.

Secretary, Mabel K. Brown, Class of 1889.

Treasurer, H. G. Stalder, Class of 1894.

EXECUTIVE COMMITTEE.

L. M. Jewett, '61.

E. J. Jones, '73.

T. R. Biddle, '91.

Margaret Boyd, '73.

B. O. Higley, '92.

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CATALOGUE

OF THE

OHIO UNIVERSITY

ATHENS

FOR 1899-1900

AND CIRCULAR OF INFORMATION FOR
1900-1901

1900
THE LANING PRINTING COMPANY
NORWALK, OHIO

Calendar for 1900=1901.

FALL TERM begins September 11, 1900, and ends December 21, 1900.

WINTER TERM begins January 2, 1901, and ends March 22, 1901.

SPRING TERM begins April 2, 1901.

COMMENCEMENT EXERCISES, 1901, June 16-20.

June 20, Commencement.

Corporation.

Board of Trustees.

Governor George K. Nash (<i>ex-officio</i>).....	Columbus.....	
Charles W. Super.....	Athens.....	
Hon. George W. Boyce.....	Cincinnati.....	1875
Hon. V. C. Lowry.....	Logan.....	1885
L. M. Jewett, Esq.,.....	Athens.....	1887
R. E. Hamblin.....	Toledo.....	1890
C. C. Davidson, A. M.....	Alliance.....	1891
Prof. A. Leue, Ph.D.....	Cincinnati.....	1891
Hon. Lucien J. Fenton.....	Winchester.....	1892
J. E. Benson.....	Cleveland.....	1892
E. J. Jones, Esq.....	Athens.....	1893
J. M. Welch, Esq.....	Athens.....	1895
Wm. E. Bundy, Esq.....	Cincinnati.....	1896
J. P. Wood, Esq.....	Athens.....	1896
F. C. Whiley.....	Lancaster.....	1896
Albert Douglas, Esq.....	Chillicothe.....	1897
Hon. H. W. Coultrap.....	McArthur.....	1897
D. H. Moore.....	Athens.....	1898
Thomas Blackstone, M. D.....	Circleville.....	1898
Israel M. Foster, Esq.....	Athens.....	1900
T. Rollen Biddie, M. D.....	Athens.....	1900

Officers of the Board.

C. W. SUPER, President.

A. J. FRAME, Treasurer.

L. M. JEWETT, ESQ., Secretary and Auditor.

Faculty.

CHARLES WILLIAM SUPER, PH. D., LL. D.
President and Professor of Greek.

DAVID J. EVANS, A. M.,
Professor of Latin.

WILLIAM HOOVER, PH. D., LL. D.,
Professor of Mathematics and Astronomy.

LOREN D. MILLIMAN, A. B.,
Professor of Rhetoric and English Literature.

* HENRY E. CHAPIN, M. S.,
Professor of Biology and Geology.

WILLIAM FAIRFIELD MERCER, PH. D.,
ad interim Professor of Biology and Geology.

JOHN PERCIVAL SYLVESTER, PH. D.,
Professor of Chemistry.

ALBERT A. ATKINSON, M. S.,
Professor of Physics.

BREWSTER OWEN HIGLEY, M. PH.,
Professor of History and Political Economy.

CLYDE BROWN, PH. B.,
Professor of Philosophy and Pedagogy.

ELI DUNKLE, A. M.,
Principal of the Preparatory Department and Associate Professor
of Greek.

* Resigned February 1, 1900.

OHIO UNIVERSITY

ANITA M. KELLOGG, B. E.,
Associate Professor of Elocution and Reading.

KATE CRANZ, A. M.,
Associate Professor of German and French.

H. ROY WILSON, A. M.,
Assistant Professor of English.

CHARLES M. COPELAND, B. PED.,
Principal of the Commercial Department.

JAMES PRYOR McVEY,
Instructor on the Piano and in Voice Culture.

NELLIE H. VAN VORHES,
Assistant Instructor on the Piano.

AGNES DYSON MILLIKAN,
Instructor on the Violin.

SARAH STINSON,
Instructor in Drawing and Painting.

MABEL K. BROWN, PH. B.,
Instructor in Stenography and Typewriting.

FRANCIS H. SUPER, B. S.,
Assistant in Electrical Engineering.

† LUCY WEETHEE BRYSON, B. S.,
Assistant in Biology and Geology.

GRACE REAH, A. B.,
Assistant in Latin and German.

ELI DUNKLE,
Secretary and Librarian.

CHARLES G. MATHEWS, PH. M.,
Assistant Librarian.

† Resigned.

General Information.

Ohio University.

ORIGIN OF THE UNIVERSITY.

The existence of the Ohio University was provided for as early as 1787, in the purchase made from the Government of the United States by the Ohio Company of Associates. By the contract between these two parties, two townships of land were set apart for the purpose of a University, and placed under the care of the Legislature of the State. The University was organized under an act of the Legislature passed in 1804. Its Trustees are appointed by State authority and the Governor of the State is, *ex-officio*, a member of the Board.

LOCATION.

Athens, the seat of the University, is situated in the southeastern part of the State. It is easily accessible from the east and west by the Baltimore and Ohio Southwestern Railroad and its branches; from the central and northern portions of the State by the Columbus, Hocking Valley and Toledo, and Kanawha and Michigan Railways. By these routes it is about one hundred and sixty miles east from

Cincinnati and seventy-five miles southeast from Columbus. The sanitary arrangements of the town are unsurpassed. Its principal streets are paved; it is provided with water-works and sewerage; its board of health is vigorous and efficient. There are few towns in the country that are more desirable as a place of temporary or permanent residence than Athens.

The lover of natural scenery cannot fail to be charmed with its picturesque surroundings. The winding valley of the Hockhocking and the wooded hills beyond, present a series of lovely views from the University, while the wide prospects, as seen at certain seasons from some of the neighboring summits, are seldom surpassed in quiet and varied beauty.

The University buildings are located in a beautiful campus. They occupy a slight elevation extending east and west across the grounds, fronting the north. Before them lies a park of about five acres containing a grove of fine forest trees and skirted along its northern limit by a row of magnificent elms. Beyond these sentinel trees extends a green sward sloping beautifully to the street. In front of the line at the northwest angle stands an elegant soldiers' monument. When this park is lighted up at night by electricity it presents a charming view. The remainder of the campus, which is in the rear of the buildings, is devoted to recreation.

BUILDINGS.

These are of brick and six in number. The central building was erected in 1817, and is the oldest college edifice northwest of the Ohio River. This venerable structure is dear to many by strong and tender associations, and to many more by names of eminent men who have here studied and taught. It has been modernized and is admirably adapted to its uses for college work.

The two wing buildings once used for dormitories have been transformed into recitation rooms and laboratories. During the year all the work in the west wing, including the electrical plant, has been transferred to the new Administration Building.

The chapel building in the rear of the central building is to be occupied for library purposes. In the second story are society halls with committee rooms attached.

The new Administration Hall now completed is one of the finest college buildings in southeastern Ohio. It is a T-shaped structure, four stories high including basement, and measures 156 feet in length by 131 in depth. Within is an auditorium, with gallery, furnishing seating capacity for about nine hundred people. It contains a president's office, nine recitation rooms with professors' offices attached, the laboratories of the Department of Physics, a trustees' and secretary's office, the rooms of the commercial department, art rooms, and a gymnasium in the basement with four thousand square feet of floor. The methods of heating and arrangement of detail are modern and well adapted to educational work.

LADIES' HALL.

This is located nearly opposite the north entrance of the campus. It is a fine, commodious brick structure, heated by steam, where beautiful rooms are occupied by lady teachers and students. Excellent boarding can be had at moderate cost in the hall.

Hereafter all young ladies who are not residents of Athens will be required to reside in the dormitory unless the rooms are all occupied. Only in special cases will exception be made. This regulation has been adopted with a view solely to the best interests of the young ladies themselves and not with any purpose to restrict them in the enjoyment of every legitimate privilege. It is the aim of

the management to make the place as attractive and pleasant as possible and at the same time to keep the cost as low as is consistent with the accommodations provided. The cost will range from \$3.25 to \$4.00 per week according to size and location of room. Everything is furnished except soap and towels. About thirty young ladies can be received.

LIBRARY AND READING ROOM.

In the study of Literature and History, the most important aid, in addition to a good teacher, is a large stock of well selected books. In this respect the O. U. is liberally provided. The college and society libraries contain about 15,000 volumes, a large part of which are of recent purchase. In addition to the books of a general character, the private libraries of the professors, which contain works of a more special character to the number of several thousand, are also accessible, under certain limitations, to the students. The reading room furnishes access to the latest contributions on all topics under current discussion. Some of the larger works are not only useful for reference, but also for purposes of original investigation.

It is the special aim of the managers of the Library to acquire as rapidly as issued all the leading works bearing on Pedagogy whether in German, French or English. A large number of works on this topic and the history of education is already on hand. The Library is so managed as to be accessible every day. The reading room, in which are placed most of the reference books and all the periodicals, is accessible at all times. The reading of well chosen books not only tells the student what others have thought in every department of knowledge, but likewise stimulates him to think for himself. A good library is of itself a university.

APPARATUS AND CABINET.

The departments of Mathematics, Astronomy, Physics, Chemistry, and Biology are well equipped with valuable apparatus, which is put at the personal disposal of the student. These subjects are illustrated upon the lecture table, but it is insisted upon that a student really enters upon possession of his knowledge only when he has acquired skill in carrying on laboratory experiments by himself under the supervision of the professor.

The large Biological Laboratory has been fitted up with appliances suitable for pursuing extensive courses of study in the various departments of Biology, the selections being made with a view to furnishing each student with such apparatus, reagents, etc., as are necessary for independent work. To this end more than a score of microscopes has been provided and many duplicates of other appliances are at hand. Excellent histological apparatus is in use for freezing and sectioning, and the laboratory is also well equipped for embryological and bacteriological work.

In the department of Physics, besides balances, specific gravity apparatus, pulleys, centrifugal devices, pumps, barometers, manometers, pendulums, and a great deal of other apparatus for the demonstration of the principles and laws of mechanics, etc., there are : a set of mounted tuning forks for bows, a complete set of electromagnetic forks of various pitches, sonometer, siren, pipes, etc., for work in sound ; lenses, prisms, mirrors, polariscopes, spectro-scope, spectrometer, diffraction gratings, projecting lantern, cameras, etc., for light ; radiometers, thermometers, calorimeters and other apparatus for heat ; and a very good equipment of dynamos, motors, calibrating and measuring instruments, resistances, galvanometers, condensers, magnetometers, induction coils, batteries, Wheatstone bridges, vari-

ous forms of reversing switches and keys, electrometers, standard cells, electrodynometers and a great deal of other apparatus suited to the general demonstration of the subject of electricity and magnetism, and to the requirements of the electrical course outlined elsewhere in this catalogue.

The chemical laboratory is equipped for work by the students in general chemistry, qualitative and quantitative analysis, and organic chemistry. The work tables for students are supplied with water and gas. Hoods are supplied for experiments upon the noxious gases. A still is set up for the continuous production of distilled water. The apparatus required by the student for the laboratory work is loaned to him and payment required at the end of the term only for what is missing or has been broken.

A fine set of surveying instruments of the most approved kind has recently been purchased for the students in field work. The cabinet affords important aid in the study of Mineralogy and Geology. But we are greatly in need of further contributions thereto, and to this end the assistance of the friends of the institution is greatly desired and earnestly solicited.

MAPS AND CHARTS.

An excellent set of maps, chiefly those of Kiepert, intended to illustrate the physical features and political changes of the historical countries of Europe and the East has lately been added to the equipment of the institution. These, in addition to those already on hand, afford an important and well-nigh indispensable aid to the study of history and geography. The outfit in this regard is believed to be unusually complete.

ADMISSION AND DISCIPLINE.

Entering the University will be considered a pledge to obey its rules and regulations. These are few and simple, appealing to the student's self-respect and sense of personal responsibility. Persons of known bad character or of lazy habits are not wanted and will not be retained unless they show a decided desire to reform. Students from other colleges must present certificates of honorable dismissal.

Candidates for advanced standing are, in all cases, examined to ascertain their thoroughness and proficiency; but certificates from other institutions will be accepted for the amount of work done in the different departments.

In exceptional cases students are admitted to classes for a week on trial, without examination, provided the professors in charge are reasonably certain that they can maintain their standing.

Ladies are admitted to all departments of the University on the same terms and under the same conditions as those prescribed for young men.

A record is made of the daily work of each student. When the standing of the student, as shown by this record and examination, falls below an average grade of 70 per cent., he must review the study. A record is also kept of each student's deportment. A low standing in either record is followed by private admonition, and notice is given to the parent or guardian.

Whenever the conduct of a student is such as to indicate that he is unfit to be a member of the University, either because of immorality or because of habitual neglect of his college duties, he will be requested to withdraw. But, in the latter case, his parents will first be notified, and if he is not withdrawn within a reasonable time, he will be dismissed,

Stress is laid upon the fact that no young man or woman need hesitate to enter the Ohio University for lack of means, or because of inadequate preparation. The surest guaranty of success is an honest and determined effort to succeed. If the student has learned nothing more during the years spent in college than how to study and how to investigate any subject of which he takes hold, no matter how meager his knowledge may be at the start, he will be able to enlarge it with astonishing rapidity. His time thus spent, whether it be measured by terms or years, will have been wisely employed. Our age is sadly in need of men and women who have such a preparatory training for life's duties.

RELIGIOUS INFLUENCE.

Students are required to be present at roll-call and prayers in the chapel every morning, unless excused by the Faculty, and to attend public worship on the Sabbath; but the choice of the place of attendance is left with the student or his parents. A student's prayer meeting is held once a week, at which attendance is optional. The University is not sectarian, and no effort is made to inculcate the doctrines of any particular creed or denomination; but the utmost care is taken to promote sound and healthy religious sentiments. We feel sure that nowhere do these matters receive more careful attention.

The founder of the Ohio University believed that "religion, morality and knowledge are necessary to good government and the happiness of mankind;" and it has been the steady purpose of those to whom has been entrusted the duty of carrying out his plans to insist on the intimate relation existing between the three. The good man, the good citizen is not he who is best informed, but he who is constantly inspired with the thought that his knowledge

should be used for the good of his fellow-men. Knowledge without virtue is a curse and not a blessing. It is the constant policy of both Trustees and Faculty to inspire students with the love of knowledge, and with desire to practice religion and morality. Accordingly only those persons are invited to profit by the means of instruction here placed within their reach, who are willing to conform their conduct as far as possible to the teachings of the Bible. We expect students who have spent some time with us to depart not only wiser but also better than they came. If such is not the case it will not be for want of care on the part of the Faculty.

YOUNG PEOPLE'S CHRISTIAN ASSOCIATIONS.

Both the Y. M. C. A. and the Y. W. C. A. have flourishing organizations connected with the Ohio University, and a large proportion of the students are members of one or the other. These hold meetings weekly or oftener, provide lectures on religious or Biblical topics, and take an active interest in promoting the spiritual, moral and intellectual welfare of the entire student body. The management of the University is in hearty sympathy with these organizations and does all that is possible to aid them in their work. The Y. M. C. A. especially, is one of the most vigorous among the colleges of the State.

FEES.

There is no charge for tuition in any of the regular preparatory or collegiate classes. But all students pay a registration fee of five dollars per term. Besides this, instruction in the following branches is to be regarded as extra and must be paid for as follows:

Piano lessons or voice culture, per term, two lessons per week....	\$8 00 to \$15 00
Use of piano one hour per day, per term.....	3 00
Bookkeeping and allied branches, per term.....	5 00
Stenography and typewriting.....	5 00

The regular fee in Chemistry and Electrical Engineering is one dollar per term to cover the cost of materials used. To this should be added a small charge for breakage—to careful students usually not more than a few cents. After the second term in Chemistry the regular fee is two dollars per term.

Those students who wish to pursue studies privately in the college departments for which they desire to have credit toward the attainment of a degree, will be required to pass an examination on each branch, and for this examination an extra fee of \$5 will be charged, which may, however, be remitted by a vote of the Faculty.

All fees must be paid within the first thirty days of the term. No exception can be made to this regulation. The registration fee must be paid when the student enters.

EXPENSES:

Board can be obtained within a reasonable distance of the University at \$2.75 per week. By forming clubs, students may board at \$2.00 per week. Those students whose circumstances require it, are allowed to board themselves, by which means their expenses may be still further reduced; but this plan is not recommended, because likely to be prejudicial to health.

The actual cost of an education at the University will depend very much upon the disposition and habits of the students. The necessary cost is very low—as low as that of any institution affording equal advantages. It is earnestly recommended to parents not to furnish their sons or daughters with extravagant means. The scholarship and character of a student are often injured by a free indulgence in the use of money. Whatever is beyond a reasonable supply exposes him to numerous temptations and endangers his success and respectability.

As persons frequently wish to know as nearly as may be, the cost of a student for one year at the Ohio University, the following estimates are here given :

LOWEST.		HIGHEST.	
Registration fee	\$15 00	Registration fee	\$ 15 00
Board in clubs.....	70 00	Board in private family.....	120 00
Room	30 00	Room.....	30 00
Books	10 00	Books.....	15 00
	<hr/> \$125 00		<hr/> \$180 00

This estimate is for three terms or forty weeks, and includes all necessary expenses except washing, and a small fee for membership in the literary societies. The additional charges for students who take electives in Chemistry and for the special class in Electricity are elsewhere noted.

METHODS OF INSTRUCTION.

Instruction is given both by recitation and lecture. The constant aim in both is to awaken interest in study, to aid in the acquisition of knowledge, and to develop the powers of thought and communication.

Some subjects can be better treated in lectures than others. The knowledge the student has of a subject is likewise a factor that is taken into account. The lecture method is generally better adapted to advanced students than to those who are still in the elements. After the elementary principles have been thoroughly mastered from the text-book, supplemented with such elucidations as seem to be called for, the student is generally prepared to profit by the lectures of the teacher, and to grasp the wider outlook that is the result of a knowledge of a subject rather than of the contents of any single book, or even of several books. In the observational studies the learner is, as far as possible, brought face to face with the objects themselves under

consideration. The classes in Botany and Geology make excursions into the surrounding country for the purpose of collecting specimens and deriving scientific knowledge from original sources. The classes in Surveying and Mensuration have practice in the use of instruments in field work.

COURSES OF STUDY.

Such courses of study have been adopted as experience has proved to be best adapted to the purpose of liberal education. The classical course in fullness and matter, will compare favorably with that of the best institutions. The philosophical course is so arranged as to meet the wants of those who may prefer to study modern languages and English branches instead of Greek, for which French, German and English are substituted. In the scientific, prominence is given to Mathematics and the Physical Sciences.

The pedagogical course is intended to fit young people for the profession of teaching. A fuller statement of its aims and methods will be found in another part of this catalogue.

Those who are able to attend for a short time only, may take a select course, provided the studies they wish to pursue are such as they are qualified to enter upon with advantage. But no student will take a study to which he has not been assigned, or discontinue a study, without permission obtained from the Faculty.

ELECTIVES.

Each student in a regular course will be required to take at least fifteen class exercises per week, and no student will be permitted to take more than seventeen, except on permission of the Faculty. This permission will be given only on the written request of the student. Students

in any one of the courses can select subjects in any one of the others below the class to which they are assigned, but not above, except on approval of the Faculty, who must be convinced that they have had sufficient preliminary training to pursue the elected study with advantage. As will be seen, about half the subjects after the freshman year are elective. But in addition to these a large number of others are offered for the benefit of those persons who wish to specialize still further along particular lines. It needs to be noted, however, that they are not offered unconditionally. Regard will be had to the time at the disposal of the teachers and to the number of students taking any particular elective, as well as to their preliminary training. In all cases where a student's knowledge of English is defective he must pursue this branch until his deficiencies are made up.

During the past few years a number of students, both undergraduate and post graduate, have pursued advanced studies on special lines. With the recent increase in the number of the Faculty a large number of students can be accommodated and in a larger number of branches.

DEGREES.

The Bachelor's degree is conferred upon students who have completed any one of the four courses laid down in another part of this catalogue. The fee for diploma is five dollars.

The Master's degree will be conferred upon graduates of this or any other college who give evidence to the Faculty that they possess such literary and scientific attainment as will make them worthy recipients of it, and have, in addition, furnished a thesis after one year's work in residence. The fee for this degree is ten dollars.

No degree will be conferred until all dues are paid.

The degree of Doctor of Philosophy will be awarded only to students who have done post-graduate work in residence.

THE EMERSON PRIZE POEM FUND.

The late W. D. Emerson, of the class of '33, bequeathed to the Trustees of the University the sum of one thousand dollars, the interest on which is to be awarded every second year to the student or graduate of the institution who shall write the best original poem. As at present invested it yields an annual revenue of \$65. The first award was made in 1893 to Miss Carrie Schwefel. The second award under the bequest was made in 1895. The prize was divided between Miss Esther Burns and Mr. John H. Atkinson. The judges were Mrs. Annie Fields, Mr. Maurice Thompson, and Mr. E. C. Stedman. The third, to Miss Virginia M. Houston, the judges being Mrs. Margaret E. Sangster, Mr. W. D. Howells, and Mr. Clinton Scollard. The thanks of the University authorities are due and are herewith tendered to these distinguished writers for the care with which they examined the verses submitted to them as well as for the interest they took in the competition.

The fourth award was to Miss Houston, Miss Arwilla McLane and Mr. J. H. Atkinson.

LITERARY SOCIETIES.

There are two literary societies in the University, the Athenian and the Philomathean. They occupy well-equipped halls in the former chapel building. The members have opportunity to exercise themselves in Declamation, Composition and Oratory, and to become familiar with the modes of conducting business in deliberative assemblies.

Debating clubs are also formed from time to time by those students who desire to have more extended practice in the public discussion of important questions.

FACILITIES FOR PHYSICAL CULTURE.

Gymnasium—The University has a large gymnasium, which has already been equipped with considerable apparatus, and the supply is being increased from time to time. The dressing rooms are supplied with large lockers for clothing and with hot and cold shower baths. The use of the baths and the gymnasium is free to students. In the conduct of the gymnasium the aim is not so much the development of a few gymnastic experts as the provision of wholesome exercise for the many. For this purpose regular instruction in light gymnastics is given for both ladies and gentlemen; on Tuesdays and Thursdays for the ladies, on Mondays and Fridays for the gentlemen. Thirty hours' credit toward graduation is given for one year's class work.

Athletic Field—The athletic field is a level tract of ten acres, owned by the University and situated a few minutes' walk southward from the campus. This field has been equipped especially for base-ball and foot-ball. The campus itself provides room only for tennis-courts, and for a small practice-ground close by the gymnasium.

Supervision of Athletic Sports—The general supervision of athletic sports is vested in two boards; the Advisory Board and the Faculty Committee. The Advisory Board, elected by the Athletic Association, consists of five members; two from the Faculty and three from the student body. This board has charge of all financial affairs of the Athletic Association, and the arrangement for intercollegiate games. The Faculty Committee, composed of three members of the Faculty, has charge of all matters involv-

ing the relation of athletic sports to the University ; for example, the eligibility of players proposed for any University team, and the investigation of charges of misconduct on the part of players. The policy of the committee is to foster the spirit of honor and gentlemanliness in athletics, to suppress evil tendencies, and to see that play shall not encroach too much upon the claims of work.

Detailed Statement
OF THE
Departments of Instruction.

GREEK.

PROFESSOR SUPER.

ASSOCIATE PROFESSOR DUNKLE.

It is the aim of this department not only to teach students to read the authors commonly read in colleges, but also to make them acquainted as far as possible with the literature and life of the ancient Greeks. In teaching the language, especially that of Homer, constant attention is called to the words related to other languages, particularly Latin, German and English ; and the laws of consonantal mutation are explained. Especial prominence is given, as the student progresses, to the following points : First, form ; second, vocabulary ; third, relation to cognate languages ; fourth, literature and history. The ear is regarded as equally important with the eye in the interpretation of words. When possible, some entire work of an author is read, as it is thought a more lasting and more satisfactory impression will thus be made upon the mind of the student than by the use of selections only.

It is a well established principle in the study and teaching of the ancient languages that they should be made, as far as possible, the basis of a study of antique life. The Greek language embodies the experience of the most remarkable people of antiquity—a people whose achievements in literature, in the arts, and in government have been, and doubtless will continue to be, inexhaustible sources of profitable instruction. It is here claimed that a study of the Greek language, together with all that should properly be taken in connection therewith, will contribute the most important element of a liberal education.

Before admission to the college class in this department, the student must be fairly familiar with the Greek Grammar and have read four books of the *Anabasis* and five books of Homer's *Iliad*.

During the past year the students in college Greek read the selections from Herodotus, Thucydides, and Xenophon in Goodwin's Greek Reader; nearly two hundred pages of the *Cyropaedeia*; Wait's *Lysias* entire; Kitchel's *Plato* entire and the *Alkestis* and the *Iphigenia in Tauris* of Euripides. More important, however, than the amount of text perfunctorily read, is a knowledge of the Greek language and a true conception of the life of Greek antiquity.

Works of reference: Hadley's and Goodwin's Greek Grammars, Goodwin's Greek Moods and Tenses, Liddell & Scott's Greek Lexicon, Peck's Classical Dictionary, Autenrieth's Homeric Dictionary, Kiepert's Classical Atlas.

ELECTIVES: Students who wish to pursue the study of Greek beyond the regular course can be accommodated with three exercises per week for three terms, the subject to be studied, or the authors to be read, to be selected by the professor. The following is the general program: As the Freshman year is devoted to a review of the Syntax,

the Accidence of the Greek language in general, the student is prepared to take up the study of master-pieces, either in oratory, philosophy or poetry, with special reference to the characteristics of each. With these ends in view, one or more terms may be given to one or more of the Attic orators, to one longer and two shorter Platonic dialogues, or to some of the principal dramas. One elective term in Greek History is offered, and one in Comparative Philology.

LATIN.

PROFESSOR EVANS,

ASSISTED BY SEVERAL INSTRUCTORS.

For entrance into the Freshman class, students must complete the Preparatory Latin Course as laid down elsewhere in this catalogue or an equivalent.

During the first part of the Freshman year attention is directed to Latin Rhetoric as exemplified in the works of Cicero and Livy. During the latter part of the year, the class reads the Odes of Horace and studies Roman History. Throughout the whole year there are frequent exercises in sight reading and in turning into the original English renderings of Cæsar, Eutropius, and Nepos.

In the whole work the endeavor is to impress on the minds of the students that Latin is the language of a moral and practical people who left their mark on the world in law and government, and that "Rome is the center of our studies and the goal of our thoughts; the point to which all paths lead, and from which all paths start again."

Hand-books: Allen and Greenough's or Gildersleeve and Lodge's or Harkness' Grammar; Allen's Roman History; Harper's Lexicon, Kiepert's wall maps of the Roman

Empire and of various countries; Ginn & Co.'s Classical Atlas; Crutwell's Latin Literature; Gow's "Companion"; Smith's Dictionary of Classical Biography; and Smith and Seyffert's (Nettleship and Sandys') Dictionaries are freely accessible to students for reference in their work.

ELECTIVES: Each year one of the following courses is offered to students who desire to continue the study of the Roman people beyond the course that is required:

1. *Latin*:

Terence, Cicero, Lucretius, Horace, Juvenal, Tacitus, Paterculus, and Quintilian are studied according to the tendency or the choice of the class.

The students have access also to Simcox's Teuffel-Schwabe's (Warr's translation), and Browne's Histories of Latin Literature, and to Guhl and Koner's Life of the Greeks and Romans.

2. *Roman History*:

A whole year is given to the study of the military and political history of Rome, special attention being directed to the causes of the struggles between the Patricians and Plebeians, and between Rome and Carthage; and to those which made Rome the conqueror of the world, as well as to the causes which led to the decline of the Republic.

Books for study and reference: Epochs of Ancient History; Lanciani's Ancient Rome in the Light of Recent Excavations; The Great Captains—Hannibal—by Dodge; Duruy's and Mommsen's Histories of Rome; Long's Decline of the Roman Republic; and Labberton's Historical Atlas.

3. *The Roman Constitution and Outlines of Roman Law*:

This course is of interest to students who look forward to the study of law, as a study of Roman law helps

one to get a clear idea of the fundamental conceptions of Jurisprudence. The study of the development of the Roman constitution and laws will help to understand how all constitutions and laws grow. In the last two courses described, students are required to consult Roman authors in addition to the authors already mentioned.

When students desire it, classes are organized to study the Vulgate Version of the Scriptures, Latin Hymns of the church, the writings of the Latin writers of church history, and other works in Patristic Latin.

MATHEMATICS AND ASTRONOMY.

PROFESSOR HOOVER,

ASSISTED BY ONE OR MORE INSTRUCTORS.

The course in pure mathematics embraces ten terms, distributed as follows: Algebra, four terms; Geometry, two terms; Trigonometry and Surveying, two terms; Analytic Geometry, one term; Calculus, one term. Of these, four terms, including Algebra to Series and Plane Geometry, are required for admission into the Freshman class; the remaining six terms are included in the College Department, covering the Freshman and Sophomore years.

See also courses of study and electives.

In teaching the pure Mathematics, especial attention is directed to the value of the study as a means of training the logical faculties. Constant stress is laid upon the steps of reasoning which underlie the various processes; and it is insisted that the principal business of the college student of Mathematics is to apprehend these clearly.

Power to apply the principles is tested by a wide range of exercises drawn from various sources, and adapted to the capacity of the student.

A part of the Spring Term in the Freshman year is devoted to the subject of land surveying and to other applications of Trigonometry. This work is important as giving good examples of the utility of mathematical science and its practical applications. The department is in possession of an excellent set of surveying instruments, including a transit, level, rod, and other necessary appurtenances. These are in frequent use by the students.

ELECTIVES: In this department the following electives are offered: Theory of Equations; Analytic Geometry of Three Dimensions; Differential Equations; Statics and Dynamics; Elliptic Functions; Spherical Harmonics; Quaternions; Determinants; Mathematical Optics; Least Squares; and Astronomy.

RHETORIC AND ENGLISH LITERATURE.

PROFESSOR MILLIMAN.

ASSISTANT PROFESSOR WILSON.

Preparatory to College English, the student must have a thorough knowledge of Grammar, and must have completed the following six terms' work or an equivalent.

FIRST TERM. Herrick and Damon's Composition and Rhetoric to Part III.

SECOND TERM. American Literature—selections from Irving, Bryant, Whittier and Poe.

THIRD TERM. American Literature continued—selections from Lowell, Longfellow, Emerson, Hawthorne and Holmes.

FOURTH TERM. English Literature—selections from Shakespeare, Milton, Burke, Addison and Dryden.

FIFTH TERM. English Literature continued—selections from Johnson, Wordsworth, Macaulay, George Eliot and Coleridge.

SIXTH TERM. Herrick and Damon's Composition and Rhetoric completed.

The work in Literature will consist of selections for careful study, and others for more cursory reading.

THE AMOUNT OF COLLEGE ENGLISH REQUIRED FOR GRADUATION.

For the B. S. degree, 96 hours' credit.

For the A. B. or B. Ph. degrees, 144 hours' credit.

For the B. Ped. degree, 196 hours' credit.

FALL TERM.

1. TENNYSON. A careful study of selected poems; 3 hours (required for all degrees).

2. SHAKESPEARE. Merchant of Venice, Richard III., Macbeth, Julius Caesar, King Lear; Moulton's Shakespeare as a Dramatic Artist to page 224; 4 hours (required for all degrees).

3. ORATIONS. This course will consist of the analysis of selected examples of Determinative and Demonstrative Oratory, and the writing of papers and complete orations; 3 hours (junior elective).

4. MILTON. A study of selected poems; 3 hours (junior elective).

5. BROWNING. 4 hours (senior elective).

WINTER TERM.

6. RHETORIC. Emphasis is placed upon the art of composition rather than upon a theoretical knowledge of rhetoric; 3 hours (required for all degrees).

7. LOWELL AND LONGFELLOW. A careful study of selected poems; 3 hours (freshman elective).

8. SHAKESPEARE. Othello, The Tempest, As You Like It, Love's Labor Lost, Hamlet ; Moulton's Shakespeare as a Dramatic Artist, pp. 225-312; 4 hours (sophomore elective).

9. DEBATES. The object of this course is to give the student training in public speaking, not only in the form of his expressions but also in the delivery and the subject matter treated. The course will be in charge of the professors of Political Economy, Elocution, and English; 2 hours (junior elective).

10. CRITICISM. Sherman's Analytics of Literature; 4 hours (senior elective).

SPRING TERM.

11. BYRON, SHELLEY, AND KEATS. A careful study of selected poems; 3 hours (freshman elective).

12. VERSE COMPOSITION. The purpose of this course is to partly familiarize the student with the chief varieties of English verse, and partly to give him the added command of language that comes from practice in different forms; 3 hours (Courses 11 and 12 are open to students who have passed courses 1 or 7.) Courses 11 and 12 will be given in alternate years. Course 12 will be given in 1901.

13. CRITICISM. Moulton's Criticism as an Inductive Science applied to Silas Marner, The Scarlet Letter, and The Princess; 4 hours (sophomore elective).

14. ENGLISH PROSE FICTION. The purpose of this course is to present the developement of the English novel; 3 hours (junior elective).

15. HISTORY OF ENGLISH LITERATURE. 4 hours (required for all degrees, except B. S.).

16. TEACHERS' COURSE. This course is given for those students who expect to teach in the public schools,

The curriculum, the texts, the methods of study, and the aims of teaching literature and composition will be considered ; 3 hours (senior elective).

UNITED STATES HISTORY AND POLITICAL ECONOMY.

PROFESSOR B. O. HIGLEY.

The importance of the study of United States History in preparing citizens to exercise the duties incumbent upon them as members of the body politic is growing more apparent every year. Therefore the aim of the teaching in this department is so to read the history of the past as to throw light upon present civic and economic problems, and thus aid in their solution. The disciplinary value of the subjects included in this department is kept constantly in view. History is regarded as a record of the social, economic, moral and political life of the people. Environment, former ideas, and changing industrial conditions are all considered as important factors in determining the course of events. The work of our great leaders in thought and action is studied carefully in connection with the history of the people. Students are encouraged to investigate the civic and economic questions of the present day with minds as free as possible from partisan prejudice and preconceived opinions.

The standard books in Civics and Economics are studied, and the views therein expressed are freely discussed in the class-room. Government publications, magazine articles and other valuable material are read for the purpose of obtaining all the light possible upon the subject under discussion as well as to broaden the mental vision of the student. The work for the year 1899 and 1900 was as follows :

PREPARATORY UNITED STATES HISTORY.—REQUIRED.

FIRST YEAR: Fall term—History of the United States, 3 hours per week.

Winter Term—History of the United States, 4 hours, per week.

Spring Term—Civil Government, 5 hours per week.

COLLEGIATE HISTORY.—ELECTIVE.

Fall Term—the Colonial Period and the Formation of the Union, 4 hours.

Winter Term—The Period of Slavery Agitation, 4 hours.

Spring Term—The Civil War and the Reconstructed Nation, 4 hours.

The Epochs of American History will be used as guides in the study of the above courses.

SPECIAL ELECTIVES.

Fall Term—History and Study of United States Constitution, 3 hours; Territorial Expansion of the United States, 2 hours; Coinage Legislation since 1789 in the United States, 3 hours.

Winter Term—A Comparative Study of State Constitutions, 3 hours; Economic and Political Effects of Immigration, 2 hours; Important Tariff Laws of the United States, 2 hours.

Spring Term—The History of Political Parties in the United States, 3 hours; The Spoils System and Civil Service Reform, 2 hours; Money and Banking, 3 hours.

In the Special Electives, the Madison Papers, The Federalist, Poore's Constitutions and Charters, American

State Papers, Reports of Directors of the United States Mint, the Congressional Globe and Record will be used in connection with the standard histories. The volumes of Bancroft, Rhodes, Von Holst, Schouler, Pitkin, and the American Statesman series are constantly at hand for reference. Hamilton's, Jefferson's, Adams's, Clay's, and Calhoun's Works are always accessible and often used.

For further particulars, see "Course of Study."

POLITICAL ECONOMY.

Fall Term—The Elements of Political Economy, Part I, 3 hours.

Winter Term—The Elements of Political Economy, Part II, 3 hours.

The work outlined above is required in the Collegiate Department. Laughlin's book will probably be the text used. The fundamental principles of the subject will be studied in the first term, followed in the second term by their practical application to the questions of today.

ELECTIVE POLITICAL ECONOMY.

Fall Term—The History of Political Economy, 3 hours.

Winter Term—Economics, 3 hours.

Spring Term—Co-operation and Profit Sharing, 3 hours.

The works of Adam Smith, Ricardo, Malthus, John Stuart Mill, Roscher, and others will be examined in the first term. Hadley's Economics will serve as a text-book in the winter term. F. A. Walker's Political Economy and Marshall's Principles of Economics will be used as references. Some phase of the Labor Question will be studied in the third term, Co-operation and Profit Sharing will be

the subject investigated in 1900 unless the class prefer to take up some other question. The department makes arrangements whenever possible for a special class in U. S. History during the Spring term.

PHILOSOPHY AND PEDAGOGY.

PROFESSOR BROWN.

FIRST TERM.

1. *Psychology* (required).

James' Psychology, Briefer Course, three recitations per week.

2. *Psychology* (elective).

Ladd's Descriptive and Explanatory Psychology, three recitations per week.

3. *Logic* (elective).

Mill's Logic or Sigwart's Logic, 2 hours per week.

4. *Philolosophy* (elective).

Watson's Selections from Kant, with readings from the critical works of Caird, Watson, and essays in philosophical magazines, two hours per week. This course will not be offered contemporaneously with Course Three, but may be substituted for it at the option of the instructor.

5. *Pedagogy* (elective).

Fouillee's Education from a National Standpoint, four recitations per week.

SECOND TERM.

6. *Psychology* (required).

Continuation of Course 1.

7. *Logic* (required).

Jevons' Lessons in Logic, four recitations per week.

8. *Psychology* (elective).

Continuation of Course 2.

9, 10. *Logic or Philosophy*.

Continuation of one of the alternative courses, 3 or 4, above.

11. *Pedagogy* (required for Pedagogical Degree).

History of Education, Davidson's Greek Education, four recitations per week.

THIRD TERM.

12. *Pedagogy* (required for Pedagogical Degree).

History of Education, Paulsen's German Universities and Fitch's Thomas and Mathew Arnold, four recitations per week.

13. *Pedagogy* (required as above).

Science of Education, Laurie's Institutes of Education, four recitations per week.

14. *Introduction to Philosophy* (elective).

James' Will to Believe and other essays, three recitations per week.

15. *Logic or Philosophy* (elective).

Sigwart's Logic or Bradley's Appearance and Reality, three recitations per week.

BIOLOGY AND GEOLOGY.

PROFESSOR CHAPIN—PROFESSOR MERCER.

ASSISTANT, LUCY WEETHEE BRYSON.

This department embraces all the subjects properly belonging to Biology, together with Inorganic and Organic Geology.

The work in Zoology begins with the second year of the preparatory course, and the subject being assigned to the fall term, abundant opportunity is offered for field work. In addition to the material gathered by the class, use is made of preserved marine types which are received from time to time for the purpose of dissection. Each student is required, also, to spend some time in the Zoological Museum, which contains many valuable specimens.

The student enters the laboratory at the very start, and such types are placed before him for examination and dissection as will lead him step by step, to correct habits of observation, by which he is enabled to comprehend the close relations of one form of life to another. As this work is in progress, the subjects under examination are fully discussed, and, on the completion of each dissection, the student is examined upon the work done. Drawings are required of the different parts and organs, in all cases. After a few types have been studied in the laboratory, the subject of classification receives careful attention.

An advanced course in Zoology is offered in the college proper, and a scholarship has been established which insures free tuition and laboratory privileges at the Marine Biological Laboratory, Cold Spring Harbor, Long Island, to the student in this department doing the highest grade of work. The importance of the advantages thus secured cannot be overestimated, as the student is given abundant opportunity to study marine life amidst its proper environments. He will, to this end, be expected to assist frequently in dredging, for which a naphtha launch is provided.

The course in Preparatory Physiology aims to give a good general knowledge of Anatomy and Hygiene, and the functions of the different organs. Occasional dissections are performed before the class, and some laboratory work is required of all. In the collegiate course this subject

is studied by more advanced methods. Osteology receives close attention, and each student is expected to give some attention to dissection, besides making a practical study of a few histological structures. Physiological principles and theories are discussed according to the latest investigations; and, in this connection, experiments are performed in the laboratory. The department is supplied with a valuable skeleton and superb French anatomical models. (For more advanced work in Anatomy and Physiology, see Preparatory Medical Course.)

Elementary Botany is required in all the Preparatory Courses except the classical. Work begins with an observational study of germinating plantlets, all students being required to sow the seeds of several representative plants and to make careful drawings of the different stages of growth. Leaves, roots and stems are studied from the objects as far as practicable, and careful dissections of certain typical flowers precede the regular work of Systematic Botany. As time permits, the student is given some insight into the microscopic structure of plants by practical work in the laboratory. An herbarium of not less than forty plants will be required of all, or an equivalent in laboratory work. In the collegiate course the student is set to work at once with the microscope, the object being to secure a knowledge from actual observation of the general anatomy and physiology of plants. This is followed by work upon the Cryptogams, and all will be encouraged to make some special investigations for themselves.

The University is thoroughly equipped for work in General Biology, a required subject in all the collegiate courses. A biological laboratory has recently been completed and fitted up with modern apparatus, including a steam sterilizer, fine optical appliances, dissecting instruments, water bath, paraffin bath, CO² freezer, Minot Micro-

tome, etc. The student is given practical training in Microscopy, and is taught the process of staining and preparation of permanent mountings. It is the intention to give a thorough knowledge of the structure and mode of growth of typical plant and animal forms, and the laboratory work is accompanied with lectures, in which the composition of organisms, methods of reproduction, development and other biological subjects are discussed.

At an early stage of the work in Geology, such objective study of minerals is pursued as will enable the student to comprehend the composition of rocks, which is next taken up. To supplement the text, lectures may be given from time to time upon Dynamical, Structural and Paleontological Geology, and these subjects are further studied in the field. Work is also offered in Determinative Mineralogy. A large cabinet of minerals is open at all times to the student of Geology.

Works of reference : Bessey's Botany, Goodale's Physiological Botany, Gray's Structural Botany, Wolle's Diatomaceæ of N. A., and Desmids of the U. S., Strasburger's Manual of Vegetable Histology, Goebel's Outlines of Classification and Special Morphology, Vine's Physiology of Plants, DeBary's Comparative Anatomy of Phanerogams and Ferns, Huxley and Martin's Biology, Sedgwick and Wilson's Biology, Packard's Zoology, Lang's Vergleichende Anatomie der Wirbellosen Thiere, Landois's Physiology, Stirling's Histology, Piersol's Histology, Shafer's Essentials of Histology, Carpenter's The Microscope, Frey's Microscopical Technology, LeConte's Elements of Geology, Dana's Manual, Dana's Mineralogy, Crosby's Mineralogy, Lyell's Principles of Geology, Geikie's Text Book of Geology, and Government Reports.

COURSE I.

Fall Term—Physical Geography.

Winter Term—Physiology.

Spring Term—Botany.

This course is required of all preparatory students five hours for an entire year.

COURSE II.

Fall Term, }
Winter Term, } General Biology.
Spring Term, }

The work of the fall term is required of second year preparatory students five hours. Collegiate students may elect the winter and spring term's work.

The winter term is elective for all college classes; the spring term is required for Sophomores, and elective for all college classes. Four hours are allowed for each of the winter and spring terms.

COURSE III.

Fall Term—Osteology.

Winter Term—Physiology.

Spring Term—Vertebrate Anatomy.

The work of this year is elective for all college classes except the winter term, which is required of sophmores.

Course I and the fall term of Course II, or their equivalent, are required for entrance to this course. Four hours are allowed in each course.

COURSE IV.

Fall Term—Histology.

Winter Term—Histology.

Spring Term { Embryology.
Bacteriology.

This course is elective for Juniors. Four hours in the fall term, three hours in the winter term, and three hours each in Embryology and Bacteriology in the spring term are allowed.

COURSE V.

Fall Term { Geology
Paleontology } or Botany.

Winter Term—Advanced Biology.

Spring Term—Advanced Botany.

The work of the fall term is required; that of the winter and spring terms is elective for Seniors. Four hours are allowed in each course.

COURSE VI—ENTOMOLOGY.

This course is a four-hour elective course for all college classes. The course is given only during the summer term.

PREPARATORY MEDICAL COURSE.

It is desirable in many cases that students looking forward to the medical profession should, after spending four years in collegiate work, be admitted to advanced standing in the medical schools, whereby a year's time may be gained. With this object in view, the department of Biology now offers such work as is, in conjunction with Physics and Chemistry, recognized by the best of these schools the full equivalent of a year's professional study. The departments of Physics and Chemistry furnish abundant opportunities for the work required in that direction. The biological work is, from the very outset, suited to the needs of the medical student. To this end it properly begins with General Biology, to be followed by a comparative study of animal forms and of phanerogamic and cryp-

togamic plants. The development of some vertebrate is closely studied, and preparations of embryos are required of each student. Throughout the course close attention to laboratory work is insisted upon. Practical instruction is given in the preparation of microscopic objects, and the student is taught the technique of section cutting and mounting. A practical knowledge of Human Anatomy is obtained from the careful dissection of some mammal, the many resemblances to the anatomy of man, and the few differences, being continually referred to. Arrangements have been made whereby students of the University are allowed, under certain conditions, to attend post-mortem examinations and to assist in the work. The laboratory is provided with modern apparatus for accurate investigation of disease germs, and the student is therefore required to do practical work in the all-important subject of Bacteriology.

Upon the completion of this course, the student may receive credit for one year's work in the regular course of study at the Medical College of Ohio, Starling Medical College, Columbus, and other medical schools; and graduates pursuing certain prescribed courses in this department will be admitted into the second year of the four-years' course of study in the Medical department of the University of Pennsylvania and Jefferson Medical College, upon presentation of a certificate signed by the professor in charge.

Among the works of reference to be found in the library may be mentioned Gray's Anatomy, Quain's Anatomy, Holden's Anatomy, Landois and Sterling's Physiology, Foster's Physiology, Foster and Langley's Practical Physiology, Foster and Langley's Embryology, Hertwig-Mark's Text-book of Embryology, Lehrbuch der Vergleichenden Entwicklungsgeschichte (Korschelt & Heider), Minot's Human Embryology, Wilder and Gage's Anatom-

ical Technology, Wiedersheim's Comparative Anatomy, Sternberg's Bacteriology and standard tests and guides in Histology. The following subjects are comprehended in this course: General Biology, Zoology, Mammalian Anatomy, Human Anatomy, Histology, Physiology, Structural and Systematic Botany, Vegetable Histology, Embryology and Bacteriology.

PHYSICS AND ELECTRICITY.

PROFESSOR ATKINSON.

ASSISTANT, MR. F. H. SUPER.

1. *Elementary Physics.*

This work is required in the first and second terms of the third preparatory year in all the courses giving a degree. Recitations three times a week, based on Carhart's and Chute's Physics; laboratory work four hours a week. A small laboratory fee is charged. The laboratory work at least will be required of all high school graduates and others who have not had its equivalent.

2. *General Physics.*

This course is required throughout the junior year of the Scientific course, and is open as an elective to students in other courses, provided they have the preparation required of students regularly in this course. In all cases a knowledge of Chemistry will be essential, but this may be acquired by entering at the same time the course in Chemistry marked in the sophomore year. No one will be permitted to begin this course until he has completed the course in Mathematics to and including Plane Trigonometry. The instruction consists of class work, with experimental demonstrations and individual laboratory work. As an outline of class work, Hastings and Beach will be used,

though references to numerous works on Physics, particularly on special subjects in Physics, will be given as supplementary to the text. The laboratory portion of the work will be adapted to the requirements of junior students and will presuppose the work in Course 1, or its equivalent. Recitations three times a week, laboratory four hours a week.

3. *Physical Laboratory.*

This will be a special elective course in heat and light, open to those who have already had 1 and 2.

4. *Physical Laboratory.*

This is elective, and will be open on the same terms as 3. The course consists of exact measurement in electricity and magnetism. A very excellent special laboratory is now used for the work of this course, and the aim is continually to improve the facilities. Nichols, Stewart and Gee, Kempe, Carhart and Patterson, Stine, and Ayrton will be used as references. Class work twice a week. Laboratory six hours a week during second term.

5. *Physical Laboratory.*

This is an elective course given in the third term, consisting of a study of dynamo electric machines to the end of determining and plotting their characteristics, efficiency, etc. Lectures twice a week. Laboratory six hours a week.

The fees for laboratory privileges are subject to adjustment.

ELECTRICAL ENGINEERING.

The rapid development of electricity for the purposes of light and power, and its general introduction into all sections of the country, have created a demand for men well qualified in this branch of engineering. The pro-

fession now offers excellent opportunities to young men, and the field is so broad that the chances for rapid promotion are very flattering to those properly qualified. The thoroughly educated man who combines practical experience with his theoretical knowledge of electricity and magnetism is in special demand; for many now engaged in this work are poorly fitted for its duties. The college does not lose sight of the fact that mind training is its chief business. Yet it is the guiding principle of this department that the education of the mind is none the less efficient for making use of the tools for this purpose which may at the same time be applied by the trained mind to earning a livelihood. We hold that, instead of being opposed, these two features are correlative.

The college possesses an excellent incandescent lighting plant, used for lighting the buildings and campus, with the design of extending to the student practical training in the construction, operation, and care of electrical and steam machinery. The plant is modern in all its parts, and meets our present requirement for light and power quite satisfactorily. Very extensive additions to our electrical equipment have been made during the present year. Both direct and alternating currents are used. The switches and fittings on the board, wiring, and general installation, are all the work of students. Modifications and extensions from time to time give others excellent opportunities to obtain valuable practice.

The electrical profession requires a great deal of mechanical ability and training in the use of tools for both wood and metal. The department is provided with shops for both, a large forge and lathe-room having been recently provided in the basement of the new Administration Building as a further addition to our facilities in this direction. These shops are provided with wood and metal working

lathes, and a complement of the necessary small tools. Additions to the shop facilities are being made continually. As will appear from the course outlined below, while mastering the use of tools, the student is taught the construction of useful pieces of apparatus for laboratory purposes. The ability thus to construct apparatus and machinery, to preserve the proper relations of the several parts in fitting them together, and in overcoming difficulties that may arise in embodying one's ideas, has a very great educational value aside from its practical aspect.

Below is indicated the course of study in this department. To this is added, however, seminary work with references to the leading treatises on electricity and engineering. Periodicals, such as the American Electrician, Electrical World and Engineer, Power, Scientific American, and Supplement, Electricity, Street Railway Journal and Engineering Magazine, are kept on file easily accessible, and are included in the seminary references. For the practical plant work each division of those in this course is now on duty one night in each week. Each engineer is required to keep a record of steam pressure and of the current of each machine at regular intervals. There is co-operation also with the city arc-light plant, and an additional night in each week is spent in learning its care and operation under competent supervision. The student in all this work is taught to operate the plant with the object of attaining its highest efficiency, and to study the greatest economy in the use of all supplies for consumption.

Requirements: This work is elective as a whole, and those taking it must pursue the course regularly in its order unless a portion of it has been previously taken. Hereafter no one will be permitted to begin the theoretical portion of the work until he has passed the first and second

terms of algebra as indicated in the second year of the preparatory course, and has completed the three terms of English marked in the preparatory course; this includes two terms of Literature and one of Rhetoric. However, those not prepared in these branches may be permitted to take up the practical portion of the course, including plant practice, shop work, free hand and mechanical drawing, while making up this work. The higher branches, including Analytical Geometry, Calculus, and Analytical Mechanics, are strongly recommended to students in Electricity, though not absolutely essential to this course. Physics and Chemistry are required as indicated. When the regular electrical course and the auxiliary studies are completed, a certificate will be issued showing the character of the work done. Also, where it is deserved, a recommendation will be issued showing the student's ability in theoretical and practical electricity. This course is subject to such changes from time to time as the development of the subject may dictate.

FIRST YEAR.

FIRST TERM.

Physics. Lectures and recitations three times a week. Laboratory work six hours a week.

Problems in Electricity. Calculations of resistance, potential, batteries, work, electro-magnets, dynamos, and motors. Four hours a week.

Shop Work. Wood-turning, metal-boring, filing and polishing. Four hours a week with no credit.

Free-hand Drawing. Simple geometric solids, one and two views; outlines of simple geometric solids in perspective. Three hours a week.

Plant Duty. Operation of college incandescent and city arc stations. One night a week each.

Mechanical Drawing. Simple geometric drawing for neatness and accuracy in the use of instruments; lettering; use of scales. Three hours a week.

Mathematics. Four hours a week.

SECOND TERM.

Physics. Lectures and recitations three times a week. Laboratory work six hours a week.

Steam. General theory of the steam engine; theory and construction of details; dimensions for required power; indicators, theory and use; valve gears. Four hours a week.

Shop Work. Metal turning, bolt cutting, and tapping. Four hours a week with no credit.

Free-hand Drawing. Outlines and shaded studies of geometric solids, single and grouped; outline and shaded studies of vase forms. Three hours a week.

Plant Duty. Operation and care of college and city stations. One night a week each.

Mechanical Drawing. Descriptive geometry; copying drawings. Three hours a week.

Mathematics. Four hours a week.

THIRD TERM.

Electric Lighting. General elementary theory; principles of construction and operation of dynamo-electric machines, systems of lighting, types of machines and other practical management. Four hours a week.

Electric Wiring. Lectures and recitations on the principles and methods of wiring for light and power; rules and regulations; plans and specifications. Four hours a week.

Shop Work. Simple pieces of apparatus, binding posts, switches, etc. Four hours a week with no credit.

Plant Duty. Care and operation of college and city stations. One night a week each.

Free-hand Drawing. Three hours a week.

Mechanical Drawing. Copy work from engine and machine drawings. Three hours a week.

Mathematics. Four hours a week.

SECOND YEAR.

FIRST TERM.

Electricity. Lectures with references and recitations upon electrical engineering. Four hours a week.

Electric Railway (or equivalent). Recitations upon general principles and practical aspects; plans and specifications. Four hours a week.

Shop Work. Construction of simple laboratory apparatus. Four hours a week, no credit.

Mechanical Drawing. Working drawings and plans of machinery from actual parts. Three hours a week.

Plant Duty. Care and partial supervision of college and city stations; trimming and testing lamps. One night a week each.

Seminary. Investigation of assigned topics; written reports. One hour each week.

Mathematics or Chemistry. Four hours a week.

SECOND TERM.

Electricity. Alternating and polyphase currents. Four hours a week.

Electricity. Absolute measurements in electricity and magnetism. Class work two times a week. Laboratory six hours a week.

Shop Work. Miscellaneous construction work ; design and construction of small motors and dynamos. Four hours a week, no credit.

Mechanical Drawing. Same as preceding term. Three hours a week.

Plant Duty. Same as preceding term.

Seminary. Same as previous term. One hour a week.

Mathematics or Chemistry. Four hours a week.

THIRD TERM.

Electricity, Testing dynamos for characteristics, efficiency, and regulation. Lectures two times a week. Laboratory six hours a week.

Electricity. Electrical transmission of power. Four hours a week.

Shop Work. Same as preceding term. Four hours, no credit.

Mechanical Drawing. Same as last term. Three hours a week.

Plant Duty. Same as preceding terms.

Seminary. Same as preceding terms. One hour per week.

Mathematics, or an individual investigation. Four hours a week.

For the present there will be no charge for electrical laboratory, but students will be held responsible for all breakage and damage. The only charge for students in electrical engineering will be five dollars per term, the regular contingent fee. Those who are not electrical students, but who wish to take mechanical drawing, may do so on the payment of one dollar per term in addition to the contingent fee.

Any one wishing to spend less time than two years will be required to pursue the course regularly so far as he goes. New light is given, and new opportunities appear very often after one year spent in the pursuit of this work. Inquiries concerning the course will receive prompt attention.

CHEMISTRY.

PROFESSOR SYLVESTER.

ASSISTANT, T. H. SHELDON.

In this department the following courses are offered:

1. Elementary Inorganic Chemistry.

This course extends over two terms and requires no preliminary study of the subject. The instruction consists of lectures, recitations, and laboratory experiments. Each student is assigned a desk in the laboratory, and performs for himself, under the constant direction of the instructor, the experiments described in the text. Many additional experiments of a more difficult kind are performed by the instructor upon the lecture table.

The aim throughout the course is to bring before the student such facts and phenomena as will enable him to clearly understand the fundamental laws of chemical science. Attention is also directed to the practical application of chemistry in the various arts and sciences. The subject is a recognized study in all courses, in the Sophomore year.

Text-book: Remsen's Introduction to the Study of Chemistry (Briefer Series); Remsen's Chemical Experiments.

Four hours fall and winter terms.

2. *Qualitative Analysis.*

This course embraces a systematic study of those reactions which are most often employed in detecting the presence of the more common bases and acids. The instruction is, for the most part, carried on in the laboratory, where the student is trained in the practical analysis of various substances, proceeding from those which are easily soluble in water and acids, to those which are insoluble, and to alloys and complex mixtures.

Open to those who have had Course 1.

Text-book: Noyes' Qualitative Analysis.

Four hours spring term.

3. *Quantitative Analysis.*

This course offers thorough training in the quantitative determination of inorganic acids and bases. The work in the first term is gravimetric, and in the second term volumetric. The student is trained in the various processes of weighing, preparation of substance in proper form for gravimetric determinations, preparations of standard solutions, chemical calculations, etc. As wide a range of analysis will be undertaken as time permits.

Open to those who have had Courses 1 and 2.

Text-book: Talbot's Qualitative Analysis.

Four hours fall and winter terms.

4. *Inorganic Preparations.*

This course is designed for those who, having taken Course 1, desire to acquire greater familiarity with the methods of preparation of the more common inorganic substances met with in laboratory work. A large number of such substances will be made by each student, the particular compound selected being chosen because of some special interest in themselves, or as illustrating some general process in their preparation.

Along with the work in the laboratory, lectures will be given once a week reviewing the subject of inorganic chemistry, and especially emphasizing the class similarities of the elements as grouped by the periodic law.

Open to those who have had Course 1.

Text-book: Thorp, Inorganic Chemical Preparations.
Three hours spring term.

5. *Organic Chemistry.*

This course is intended to be an introduction to the study of organic chemistry, and is designed especially for those who intend to enter upon advanced study of chemistry, or upon biological or medical courses. It embraces an elementary study of the more common compounds of carbon, special attention being directed to the classification of such substances, and to a clear presentation of their structure.

Open to those who have had Course 1.

Text-books: Remsen's Organic Chemistry; Orndorff's Laboratory Manual.

Four hours fall term.

6. *Physiological Chemistry,*

This course is especially arranged for such students as have the profession of medicine in view. It is, in general a continuation of Course 5, in which special attention is given to a consideration of such substances as possess physiological significance, or toxicological properties.

In the laboratory, the work consists of water analysis, of the chemical examinations of various animal products, such as blood, urine and stomach fluids, and of chemical tests for various poisons. It is the aim of the course to give practical experience in such chemical examinations as are commonly demanded in medicine, and to make them intelligible to the student from the chemical standpoint.

Open to those who have had Courses 1 and 5.

Four hours winter and spring terms.

The chemical department has been given all of the space on the second floor of the center building; and thus enlarged, it will be amply provided with the desk room necessary for carrying on the various courses in a satisfactory manner. When fitted up for use, it will include a general laboratory for elementary work, an analytical and an organic laboratory, weighing room, gas analysis room, two stock rooms, lecture room, private office and laboratories.

The laboratories are furnished with gas, water and electricity, and the department is well equipped with apparatus and appliances sufficient for carrying on the courses outlined above.

MODERN LANGUAGES.

KATE CRANZ, ASSOCIATE PROFESSOR.

GERMAN.

The entire course offered in German covers a period of four years. The first two years are required of all students in the Philosophical and Scientific Courses. Two courses are offered as electives—a year of critical reading with conversation, and a year of Composition with Conversation. Only one course is offered each year, the courses alternating. The course in composition and conversation will be offered in 1900-1901.

PREPARATORY GERMAN.

First Term—Grammar with Written Exercises, five hours per week.

Second Term—Grammar two hours per week; Translation, three hours per week.

Third Term—Translation, five hours per week.

COLLEGIATE GERMAN.

First Term—Narrative Prose, four hours per week.

Second Term—Narrative Prose, four hours per week.

Third Term—Selections from Lessing, four hours per week.

ELECTIVE GERMAN.

1. A study of Scheffel's *Ekkehard* and Goethe's *Faust*, two hours per week throughout the year; Conversation, two hours per week throughout the year.

2. Composition, two hours per week throughout the year; Conversation, two hours per week throughout the year.

The course in Conversation is open to all students who have finished the first two terms.

FRENCH.

The course in French is required of all students in the Philosophical and Scientific Courses.

First Term—Grammar and Written Exercises, four hours per week.

Second Term—Narrative Prose, four hours per week.

Third Term—Narrative Prose, four hours per week.

Electives will be offered in this department later.

ORAL RHETORIC AND ORATORY.

ANITA M. KELLOGG, B. E., ASSOCIATE PROFESSOR.

The work in this department is intended to accomplish two objects: first, to give the student command of Spoken English and the ability to read English easily and clearly at sight; second to develop any special talent he

may possess for Interpretation, Public Speaking, Debate, Declamation, Dramatic Reading and Impersonation.

The required work consists of two consecutive terms taken during the College Preparatory Course, followed by two terms of Elective work chosen from the list offered below to college students.

Beginners must furnish evidence of having accomplished some work in the following branches: English Grammar, Written Rhetoric and Literature. For this reason students are advised to defer the work in this department until their second year Preparatory.

PREPARATORY COURSE.

First Term.—Mechanism of Voice,—Anatomy, Physiology and Hygiene of the Vocal Organs,—Breathing,—Gymnastics,—Voice Development and Modulation,—Fundamentals of Position and Gesture.

Second Term.—Thought Analysis,—Reading by Ideas,—Prepared Selections,—Principles of Criticism,—Reading aloud from newspapers and magazines at sight,—Discussion of Current Topics,—Public Speaking.

COLLEGIATE COURSE.

Students are advised not to enter this course before their second year in college. A foundation of general information and some special work in Rhetoric, Language, Literature, General History, Logic, Political Economy and Psychology are essential to success in this study. The aim of this course is first: to prepare the student for acceptable Public Speaking, Debate, Argument, and Oratory; second, to give him an opportunity to study, if he so desire, along the following lines: Declamation, Recitation and Dramatic Action.

The course is divided into three terms devoted to Public Address, and three terms devoted to Elocution and Action. The student is expected to make his choice from the list of Electives and to arrange his work, as nearly as may be, to take two or three consecutive terms in or to secure to himself his natural development in logical, progressive utterance.

COLLEGE ELECTIVES.

a. 1. Conversation and Discussion leading to Prepared Addresses.

2. Memoritur and Extempore Speaking, leading to Debate.

3. Oral Debate and Argumentative Speech. Oration.

b. 1. Memoritur Rendering of Dramatic Recitations. Declamations.

2. Melody of Voice, Rhythm, Interpretation, Reading.

2. Dramatic Rendering, Monologues, Plays, Character Sketches.

There is also offered an Elective in Public Debate. This will be under the charge of three members of the Faculty, the Professors of Political Economy, of English and of Oral Rhetoric and Oratory.

In connection with this department there is a well-organized Dramatic Club which gives several public performances during the season, some in the auditorium, others in the Opera House. Students are eligible to membership in this club after two terms' work in this department.

VOCAL AND INSTRUMENTAL MUSIC.

JAMES PRYOR McVEY AND NELLIE H. VAN VORHES,
INSTRUCTORS.

The Board of Trustees have recently added a course in music without determining precisely what its relation to the other departments should be. This course for the present is as follows :

- a.* Chorus and Sight Reading.
- b.* Voice Culture.
- c.* Piano and Theory.

Under the first, the work is distributed into elementary instruction on the lines and spaces as representing sounds ; notes as representing quality ; the clefs, rhythm, the diatonic major scale. Further lessons in dictation in connection with blackboard exercises for the purpose of familiarizing the student with the simple succession of tones and rhythmic form. Next the interval system. Here progressive exercises are used in order to familiarize the pupil with the various intervals, and particular attention is given to correct intonation and purity of tone. Finally, the theoretical and practical development of the major and minor scales, followed by exercises in the use of both modes.

With students of the second grade the matter in the first is recapitulated. This is followed by solfeggio exercises in two parts on the compositions of ancient and modern masters. Pupils of the third grade study three and four part compositions in which special stress is laid on the acquisition of a correct pronunciation of both vowel and consonant sounds.

Under the head of Voice Culture, instruction is given upon the correct position while singing ; the position of

the mouth, tongue and larynx; the manner of attacking and leaving a note; the manner of forming pure notes in the different registers, and of connecting tones without slurring. Next in order are respiratory exercises in which the pupil is taught how to acquire a long, noiseless and easy breathing by slow inhalations and exhalations. These are followed by exercises in scales, runs, trills and other embellishments. The laws of expression as set forth in the words of old and modern masters are also studied. Last in order is the expression of vowel and consonant sounds. The pupil is taught how to pronounce distinctly without injuring the purity of the vocal tones.

PIANO.

The advance of the pupil on this instrument beginning with the simplest elements and passing to the most difficult selections is so gradual that it is scarcely possible to indicate it by grades. He is, however, always provided with exercises suited to his advancement and to the skill already attained. In this way his progress is continued and uninterrupted as long as he continues to study. It is, therefore, not deemed necessary to indicate here specifically the exercises that will be from time to time put into his hands. It can not be too strongly urged upon those who desire to become proficient that they must act upon the motto, Practice, Practice, Practice.

All the pupils in this department are required to take the complete course in Harmony contained in classes A and B of Broekhoven's System of Harmony. The requirement for the pupils in vocal music is limited to Class A. Students' recitals will be given in the college chapel each term, in which all who are qualified will be expected to take part. The value of such practice need not be dwelt on here.

With a view to encouraging the systematic study of music it may be taken as an elective on the same conditions as those provided for other electives. Music, if properly studied, has an educational value nearly or quite equal to that of any other branch. But it is of far less importance to be a fine player than an intelligent judge of good music. Those who wish to become performers will be accommodated as far as possible, but the chief attention of the teachers will be directed towards the attainment of genuine musical culture.

Students who have had three years of lessons on the piano, two per week, and one of theory, or an equivalent, may be excused from all language study in the Preparatory Department. Musical theory shall constitute one study and may be pursued as long as the student desires to do so. Those who take two lessons per week in instrumental music or vocal training may receive credit for 75 hours' elective work per year. A good knowledge of English will be insisted on. Those who attain a sufficient degree of proficiency in music may receive a certificate in addition to their diploma.

The following books are recommended for study, or at least for careful perusal:

Among the text-books used will be Behnke's *Mechanism of the Human Voice*; Behnke & Browne's *Voice, Speech and Song*, and *The Child's Voice*; Elson's *German Song and Song Writers*; Fay's *Music Study in German*; Fétis's *Music Explained to the World*; Goodrich's *Music as a Language*, and *Complete Musical Analysis*; Hand's *Aesthetics of Musical Art*; Upton's *Standard Operas and Oratorios*; *Biographies of the Great Musicians* by Nohl and by Huffer; Ritter's *History of Music*; *Musical Acoustics* by Broadhouse; Grove's *Dictionary of Music and Musicians*, etc.

A comparison of the above course with any other in the country will show that it is surpassed in excellence and thoroughness by none and equaled by few. Those who complete it will not only have an intelligent comprehension of music both in itself and its relation to the other arts of civilization, but will possess an excellent education in addition. A musical literary club meets once in two weeks for the study of the literature and history of music.

DRAWING AND PAINTING.

SARAH STINSON, INSTRUCTOR.

It is the aim of this department to give a practical knowledge of art, and to lead pupils, through the cultivation of their observing powers, to an appreciation and love of the beautiful as found in nature and expressed in the handiwork of man. As form, study and drawing furnish the foundation this course of instruction, special attention is given to that part of the work. No pupil will be allowed to take painting who has not had at least three terms of drawing. Charcoal is the medium chosen, and all drawings must be made from the object. Pencil and pen and ink may be used in advanced grades. Instruction in out-of-door sketching will be offered during the spring term to those who have completed five terms in charcoal drawing.

The course of instruction is as follows :

First Grade—(1) Outlines from geometrical solids. (2) Shaded studies from geometrical solids. (3) Outlines and shaded studies from still life. (4) Outlines and shaded studies from features.

Second Grade—(1) Outlines for elementary blocked heads. (2) Detached features of the face, hands and feet in outline. (3) Detached features of the face, hands and feet shaded.

Third Grade—(1) Outline from advanced blocked heads. (2) Masks in outline. (3) Masks shaded. (4) Busts in outline and shaded the size of the original.

Fourth Grade—(1) Outline from life. (2) Shaded studies from life.

PAINTING.

First Grade—Still life objects, single and in groups.

Second Grade—Still life in draperies.

Third Grade—(1) Studies from nature. (2) Studies from life.

COMMERCIAL DEPARTMENT.

C. M. COPELAND, PRINCIPAL,

This work is arranged to meet the large demand on the part of regular as well as special students for instruction in the commercial studies. It is recognized that a course in this department is not all of an education, but a very useful and important part. The regular student has an opportunity during his college course to obtain a knowledge of business rules and customs which will be invaluable to him when he afterwards goes into business or enters a profession. The special student, who takes only this work, has the same advantages of library, reading room, literary societies, gymnasium, college associations, etc., as regular students and may enter any of the regular preparatory or college classes without extra charge. Moreover, the special student finds contact with a large student body in the general college work helpful and inspiring.

Commodious rooms in the new building have been assigned to this department, and they have been well equipped for the work. The bank, and commission, wholesale, and railroad offices in the office department are models in

arrangement, fixtures, and supplies. Here students receive the training that comes from filling the principal as well as the subordinate positions in such offices. In the bank they pass from the position of collection clerk to that of book-keeper, teller, and cashier. In the wholesale office they are shipping clerk, book-keeper and manager; in the railroad office, agent and clerk; in the commission office, receiving clerk, shipping clerk, book-keeper, and manager.

All the work in this department is elective for which college credit is allowed on any of the regular courses. Diplomas will be granted only to students who have had the three terms of English, two of U. S. History, and one of Civics required in the first year preparatory or their equivalent. This work can be taken in connection with the courses in Business and Stenography. Those not wishing a diploma will be allowed to take up the commercial work, without these extra studies, provided they can give evidence that they are competent to do so. Only excellent students should take the courses in Business and Stenography at the same time as experience teaches that no others can do the required work well.

COURSE IN BUSINESS.

1. THEORY OF ACCOUNTS. Five hours per week for two terms. Beginning classes are formed each term. Ample practice is given in the systems of accounts used in the various kinds of business from retailing to modern banking. It is the aim of this course to give the student a wide acquaintance with business methods and to secure proficiency in opening and closing books, journalizing, rendering statements, tracing errors, analyzing accounts, and drawing business papers. This course prepares teachers to meet the requirements in high schools.

2. ACTUAL BUSINESS AND BANKING. Five hours per week for one term and open to students who have taken Theory of Accounts. This work is on the inter-collegiate communication plan, and the transactions are with students of other colleges. The business correspondence growing out of purchases, sales, remittances, collections, making settlements and adjusting accounts, carried on with a number of advanced students in other cities, each one anxious to maintain a good record for his school, must certainly develop a high grade of efficiency in all the student's work.

3. COMMERCIAL LAW. Three hours per week in the winter term. This work deals in a general way with the subjects of contracts, agency, partnership, corporations, sales, and negotiable paper, and is intended to give students a practical acquaintance with the fundamental principles of each.

4. COMMERCIAL CORRESPONDENCE AND BUSINESS FORMS. One hour per week in the winter term.

5. BILLS AND NOTES. (Not required.) Two hours per week in the spring term.

STENOGRAPHY AND TYPEWRITING.

MABEL K. BROWN, INSTRUCTOR.

It is the aim of this department to teach the subject thoroughly rather than to turn out so-called stenographers in a short time. Special attention is given to the elementary principles of the art, as it is believed this method leads to the greatest saving of time in the end. The time spent in completing the course depends upon the ability and industry of the student. Many find it to their advantage to study three terms, or ten months, but the course can be finished in less time.

While the demand for stenographers is increasing, the standard of proficiency is steadily rising. In order to obtain and hold a good position, the stenographer must be able not only to take notes with rapidity, but to transcribe them intelligently. No person who is deficient in English can hope to be able to do this, no matter how great his skill as a stenographer. The courses in English in this institution are open to all students of stenography, without extra charge, and those who need instruction in these branches are urged to avail themselves of the opportunity offered.

In typewriting the student's first efforts are directed to acquiring a correct method of fingering. This is followed by practice leading to high speed. Business and legal forms are studied, and as soon as practicable the student is required to transcribe his notes taken from dictation. Punctuation and the correct use of capitals are taught throughout the course.

PENMANSHIP.

N. R. CUNIOUS, INSTRUCTOR.

It is well known that good writing is a desirable accomplishment for any one and indispensable for those who would succeed as book-keepers or stenographers. Accordingly the classes in Penmanship are open to all students, and those in the commercial department, who do not write a good hand are required to take regular instruction. To develop plain writing with an easy rapid movement is the constant aim in all exercises. Ornamental work will be given to advanced students who desire it.

EXPENSE.

In addition to the contingent fee of \$5.00 there is a special fee of \$5.00 for Business, \$5.00 for Stenography and Typewriting, and \$1.50 for Penmanship, per term. The books for the entire course in Stenography do not cost more than \$2.00 and in the Business course not more than \$10.00. Those who complete either course as outlined above will be granted a certificate for which a fee of \$3.00 may be charged.

Courses of Study

IN

Collegiate Department.

In the following scheme, the figures in parentheses indicate the number of exercises per week. It is believed that the four courses given below are equal in educational value, and all require 2500 hours of class-room work for their completion. The required work in each course is about 1500 hours. Each student is expected to select the remaining 1000 hours from the electives offered in the various departments.

REQUIRED SUBJECTS FOR THE DEGREE OF BACHELOR OF ARTS.

FRESHMAN YEAR.

Fall Term—Greek (4); Latin (4); Solid Geometry (4); Political Economy (2).

Winter Term—Greek (4); Latin (4); Algebra (4); Political Economy (2).

Spring Term—Greek (4); Latin (4); Plane Trigonometry and Surveying (4).

SOPHOMORE YEAR.

Fall Term—Greek or Latin (4); Chemistry (4); European History (3).

Winter Term—Greek or Latin (4); Physiology (4); Chemistry (4).

Spring Term—Greek or Latin (4); Biology (4); European History (3).

JUNIOR YEAR.

Fall Term—English Literature (4); Psychology (3).

Winter Term—Psychology (3).

Spring Term—English Literature (4).

SENIOR YEAR.

Fall Term—Advanced Botany or Geology (4).

Winter Term—Logic (4); Astronomy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF
BACHELOR OF PHILOSOPHY.

FRESHMAN YEAR.

Fall Term—Latin (4); German (4); Solid Geometry (4); Political Economy (2).

Winter Term—Latin (4); German (4); Algebra (4); Political Economy (2).

Spring Term—Latin (4); German (4); Plane Trigonometry and Surveying (4).

SOPHOMORE YEAR.

Fall Term—French (4); Chemistry (4); European History (3).

Winter Term—French (4); Chemistry (4); Physiology (4).

Spring Term—French (4); Biology (4); European History (3).

JUNIOR YEAR.

Fall Term—English Literature (4); Psychology (3).

Winter Term—Psychology (3).

Spring Term—English Literature (4).

SENIOR YEAR.

Fall Term—Advanced Botany or Geology (4).

Winter Term—Logic (4); Astronomy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF
BACHELOR OF SCIENCE.

FRESHMAN YEAR.

Fall Term—Latin (4); German (4); Solid Geometry (4); Political Economy (2).

Winter Term—German (4); Latin (4); Algebra (4); Political Economy (2).

Spring Term—German (4); Latin (4); Plane Trigonometry and Surveying (4).

SOPHOMORE YEAR.

Fall Term—French (4); Chemistry (4); Trigonometry (4); European History (3).

Winter Term—French (4); Analytical Geometry (4); Chemistry (4).

Spring Term—French (4); Biology (4); European History (3).

JUNIOR YEAR.

Fall Term—Physics or Mechanics (4); English Literature (4).

Winter Term—Physics (4); Psychology (3).

Spring Term—Physics (4); Psychology (3).

SENIOR YEAR.

Fall Term—Advanced Botany or Geology (4).

Winter Term—Logic (4); Astronomy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF
BACHELOR OF PEDAGOGY.

FRESHMAN YEAR.

Fall Term—U. S. History (4); Solid Geometry (4); Political Economy (2); A Foreign Language (4).

Winter Term—U. S. History (4); Algebra (4); A Foreign Language (4); Political Economy (2).

Spring Term—U. S. History (4); Plane Trigonometry and Surveying (4); A Foreign Language (4).

SOPHOMORE YEAR.

Fall Term—A Foreign Language (4); European History (3).

Winter Term—A Foreign Language (4); Physiology (4).

Spring Term—A Foreign Language (4); Biology (4); European History (3).

JUNIOR YEAR.

Fall Term—A Foreign Language (4); English Literature (4); Psychology (3).

Winter Term—A Foreign Language (4); History of Education (3); Elocution (3); Psychology (3).

Spring Term—A Foreign Language (4); English Literature (4); History of Education (4); Elocution (3).

SENIOR YEAR.

Fall Term—Psychology (3); English Literature (4).

Winter Term—Logic (4); Astronomy (4).

Spring Term—Science of Education (4).

PREPARATORY DEPARTMENT.

ELI DUNKLE, PRINCIPAL.

This department is designed to prepare students for the regular courses of the college. Students are also received who wish to pursue elementary studies, even though they may have no intention of entering one of the higher courses.

Candidates for admission to this department must furnish satisfactory evidence of good character, and must pass examination in Geography, Arithmetic, English Grammar, Elementary U. S. History, and all studies of the courses lower than those which they wish to pursue. Persons who have certificates from county examiners in Ohio will be admitted without examination in the subjects named above. But students who expect to graduate from the Normal department must give evidence that they are thoroughly familiar with the common school branches.

There are four preparatory courses, Classical, Philosophical, Scientific, and Pedagogical, each requiring three years for completion, and each leading to a corresponding course in the collegiate department. For the benefit of

teachers and others who wish a more thorough preparation for their work, classes in Arithmetic, Elementary Algebra, and English Grammar will be organized at the beginning of each term.

SUMMER SCHOOL.

It is customary for members of the Faculty to conduct a summer term. This term usually begins on the first Monday after commencement. At the present time it is, however, impossible to make definite announcement for the summer of 1901. Should such a term be provided for, it will be announced in a special circular.

THE COURSES OF STUDY IN DETAIL.

LATIN.

FIRST TERM. Collar and Daniell's Beginner's Latin Book.

SECOND AND THIRD TERMS. Rolfe & Dennison's Junior Latin Book. Especial stress is laid on inflections and composition.

SECOND YEAR. Cicero's Orations. The orations usually read are the four against Catiline, Pro Archia, Pro Marcello, and Pro Ligario. A careful study of forms and syntax is an important part of this year's work.

THIRD YEAR. Vergil's Aeneid, Books I-VI. Grammar reviews, scansion and mythology. Collar's Latin Prose Composition.

GREEK.

FIRST AND SECOND TERMS. White's Beginner's Greek Book, with particular reference to inflections and sentence-writing.

THIRD TERM. Xenophon's *Anabasis*. Grammatical reviews and translation into Greek of easy prose.

FOURTH TERM. *Anabasis* continued through the fourth book. Jones' Greek Prose Composition.

FIFTH AND SIXTH TERMS. Homer's *Iliad*, Books I-V, omitting the Catalogue of Ships in Book II. Jones Greek Prose. In this connection considerable time is given to the study of the Epic dialect.

ENGLISH.

FIRST TERM. Herrick and Damon's *Composition and Rhetoric* to Part III.

SECOND TERM. American Literature — Selections from Irving, Bryant, Whittier and Poe.

THIRD TERM. American Literature continued—Selections from Lowell, Longfellow, Emerson, Hawthorne and Holmes.

FOURTH TERM. English Literature—Selections from Shakespeare, Milton, Burke, Addison and Dryden.

FIFTH TERM. English Literature continued—Selections from Johnson, Wordsworth, Macaulay, George Eliot and Coleridge.

SIXTH TERM. Herrick and Damon's *Composition and Rhetoric* completed.

GERMAN.

FIRST TERM. Cook's Otto's German Grammar, and Written Exercises.

SECOND TERM. Cook's Otto, Written Exercises, and translation of easy narrative prose.

THIRD TERM. Translation of easy narrative prose.

MATHEMATICS.

FIRST TERM. Milne's Essentials of Algebra, entire text-book.

SECOND TERM. Wells' Essentials of Algebra, first nineteen sections.

THIRD TERM. Wells' Essentials of Algebra completed.

FOURTH TERM. Chauvenet's Plane Geometry, at least four books.

PHYSICS.

Two terms, 5 hours per week. Recitations 3 times a week. Laboratory work 4 to 6 hours per week, 3 hours in the laboratory being equivalent to one recitation.

Carhartdelz & Chute's Physics will be used as a guide for the class work. Full notes are taken in the laboratory, which are criticized, corrected and copied into a permanent book. The object is to teach laboratory methods of work and give opportunity to the student to acquire more or less skill in handling apparatus, while the recitation periods are devoted to the acquisition of the elementary principles of the subject.

PHYSICAL GEOGRAPHY.

This subject is required in all courses. The Eclectic Physical Geography is used as a text-book.

ZOOLOGY.

Considerable field work is done, and, in addition, preserved marine types are made use of for dissection. Students are expected to spend some time in the zoological museum. Chapin and Rettger's Elementary Zoology and Laboratory Guide is the text-book used.

PHYSIOLOGY.

The text-book is Martin's Human Body, Briefer Course. The aim is to give a good general knowledge of Anatomy and Hygiene and of the functions of the different organs of the body. More or less laboratory work will be done.

BOTANY.

Field and laboratory work are a leading feature in this course. Each student will prepare a herbarium of not less than forty plants. Gray's School and Field Book of Botany is the text-book.

U. S. HISTORY.

Two Terms: The first of three hours per week, and the second of four hours per week. Text-book, either The Student's American History by Montgomery, or Channing's Student's History of the United States.

CIVICS.

The fundamental principles of the subject are carefully explained, while at the same time the practical operation of the different local and state systems are compared. Especial attention is given to the government of Ohio. The growth of our national system is thoroughly investigated.

EUROPEAN HISTORY.

This subject is pursued three terms in the Second Preparatory Year.

FIRST TERM. Botsford's History of Greece.

SECOND TERM. Allen's Short History of the Roman People.

THIRD TERM. Montgomery's Leading Facts of English History.

The aim is to give the student a general acquaintance with the leading persons, and the institutions, political and religious, with the literary and artistic movements; in general with the progress of civilization in its broader aspects. The method employed will be the text-book, references to more comprehensive works, essay writing, map drawing, and lectures by the teacher.

PEDAGOGY.

FIRST TERM. Gordy's Psychology.

SECOND TERM. Quick's Educational Reformers.

THIRD TERM. Fitch's Lectures on Teaching.

DRAWING.

Required in all four courses. Two hours in the studio are considered equivalent to one recitation.

ELOCUTION.

Required work in all courses.

FIRST TERM. Physical culture, development of the voice, inflection, phrasing and expressive reading, using Curry's Classic Selections as a text-book.

SECOND TERM. Development of the voice, articulation and pronunciation, with use of the same text-book.

Conspectus of Preparatory Courses.

FIRST YEAR—First Term.			
<i>Classical.</i>	<i>Philosophical.</i>	<i>Scientific.</i>	<i>Pedagogical.</i>
Beginning Latin..... 5	Beginning Latin..... 5	Beginning Latin..... 5	Beginning Latin..... 5
Rhetoric..... 5	Rhetoric..... 5	Rhetoric..... 5	Rhetoric..... 5
Physical Geography..... 5	Physical Geography..... 5	Physical Geography..... 5	Physical Geography..... 5
Drawing..... 1	Drawing..... 1	Drawing..... 3	Drawing..... 1
U. S. History..... 3	U. S. History..... 3	U. S. History..... 1	U. S. History..... 3
Second Term.			
Latin—Rolfé and Den- nison..... 5	Latin—Rolfé and Den- nison..... 5	Latin—Rolfé and Den- nison..... 5	Latin—Rolfé and Den- nison..... 5
English Literature..... 5	English Literature..... 5	English Literature..... 5	English Literature..... 5
Drawing..... 2	Drawing..... 2	Drawing..... 2	Drawing..... 2
Elocution..... 3	Elocution..... 3	Elocution..... 3	Elocution..... 3
U. S. History..... 4	U. S. History..... 4	U. S. History..... 4	U. S. History..... 4
Third Term.			
Latin—Rolfé and Den- nison..... 5	Latin—Rolfé and Den- nison..... 5	Latin—Rolfé and Den- nison..... 5	Latin—Rolfé and Den- nison..... 5
English Literature..... 5	English Literature..... 5	English Literature..... 5	English Literature..... 5
Elocution..... 2	Elocution..... 2	Elocution..... 2	Elocution..... 2
Drawing..... 2	Drawing..... 2	Drawing..... 2	Drawing..... 2
Civil Government..... 5	Civil Government..... 5	Civil Government..... 5	Civil Government..... 5
SECOND YEAR—First Term.			
Cicero's Orations..... 5	Cicero's Orations..... 5	Cicero's Orations..... 5	Cicero's Orations..... 5
Beginning Greek..... 5	History of Greece..... 5	History of Greece..... 5	History of Greece..... 5
History of Greece..... 5	Zoology..... 5	Zoology..... 5	Zoology..... 5
Algebra..... 5	Algebra..... 5	Algebra..... 5	Algebra..... 5

Second Term.

Cicero's Orations.....	5	Cicero's Orations.....	5	Cicero's Orations.....	5
Greek—Second Term.....	5	History of Rome.....	5	History of Rome.....	5
History of Rome.....	5	Physiology.....	5	Physiology.....	5
Algebra.....	5	Algebra.....	5	Algebra.....	5

Third Term.

Cicero's Orations.....	5	Cicero's Orations.....	5	Cicero's Orations.....	5
Anabasis.....	5	History of England.....	5	History of England.....	5
History of England.....	5	Botany.....	5	Botany.....	5
Algebra.....	5	Algebra.....	5	Algebra.....	5

THIRD YEAR—First Term.

Vergil.....	5	Vergil.....	5	Vergil.....	5
Latin Prose Composition... }	5	Latin Prose Composition... }	5	Latin Prose Composition... }	5
Anabasis.....	5	German.....	5	Psychology.....	5
Greek Prose Composition. }	5	Elementary Physics.....	5	Elementary Physics.....	5
Elementary Physics.....	5	English Literature.....	5	English Literature.....	5
English Literature.....	5				

Second Term.

Vergil.....	5	Vergil.....	5	Vergil.....	5
Latin Prose Composition... }	5	Latin Prose Composition... }	5	Latin Prose Composition... }	5
Homer's Iliad.....	5	German.....	5	History of Education.....	5
Greek Prose Composition... }	5	Elementary Physics.....	5	Elementary Physics.....	5
Elementary Physics.....	5	English.....	5	English.....	5
English.....	5				

Third Term.

Vergil.....	5	Vergil.....	5	Vergil.....	5
Latin Prose Composition... }	5	Latin Prose Composition... }	5	Latin Prose Composition... }	5
Homer's Iliad.....	5	German.....	5	Methods of Teaching.....	5
Greek Prose Composition... }	5	Genung's Rhetoric.....	5	Genung's Rhetoric.....	5
Genung's Rhetoric.....	5	Plane Geometry.....	5	Plane Geometry.....	5
Plane Geometry.....	5				

The figure after the name of a study indicates the number of recitations per week in that subject.

List of Students.

COLLEGIATE DEPARTMENT.

POST GRADUATE STUDYING FOR A DEGREE.

Reah, Grace, A. B.....Zalesk

CLASS OF 1899.

Bean, L. Gardner.....Athens
Bennett, Gilbert AbelAmesville
Bennett, Newman Hall.....Jacksonville
Henson, Clarence Cherrington.....Clay
Hooper, Dollie.....Athens
Houston, Virginia Miller.....Warwick, New York
Kaler, Charlotte Rannells.....Athens
Kohberger, Henry Paul.....Warwick, New York
Koons, Stella Irene.....Columbus
Morse, Bert Edmund.....Athens
Roberts, John Ellis.....Lysander

SENIORS.

Bahrman, Harry Rockafellar.....New Milford, N. Y.
Bryson, Charles Harvey.....Athens
Cline, Cecil Roy.....Mt. Blanco
Crane, William I.....Dayton
Gibson, Elza Goodspeed.....Athens
Hastings, Laura Matilda.....Athens
Irwin Rochester.....South Perry
MacLane, Arwillia.....Toledo
Matheny, Charles Morris.....Athens
Sheldon, Thomas Henry.....Athens
Wilson, Mabel Zoe.....Athens

JUNIORS.

Batterson, Mayme Alice.....	Portsmouth
Black, Margaret Geneva.....	Glen Ebon
Blackwood, Nelle Rosamond.....	Athens
Brown, Minnie Frances.....	Athens
Bryson, Maurice Mason.....	Glouster
Clayton, David Roy.....	Athens
Evans, Jacob Claire.....	Athens
Fuller, Nellie Mary.....	Athens
Horn, Bernice LeRoy.....	Athens
Kaler, Mary Engle.....	Athens
Kurtz, Anna Elizabeth.....	Columbiaville, Mich.
Riley, Martina Mary.....	Guysville
Townsend, Mary Allen.....	Athens
Tullis, Flora Blanche.....	Cincinnati
Welch, Philip Johnson.....	Athens
White, Gershom Franklin.....	Malta
Wickham, Mabel Leona.....	Glen Ullin, N. Dak.
Wilson, Blanche Nell.....	Athens
Witman, Dwight Newcomb.....	Columbus

SOPHOMORES.

Bishop, Robert Francis, Jr.	Athens
Bradshaw, Alice May.....	Athens
Caldwell, George Washington.....	Lottridge
Clements, Jerry Riley.....	Waverly
Conner, May Sherwood.....	Athens
Copeland, William Franklin.....	Tappan
Dixon, Floyd.....	Athens
Douth, Ida Helen.....	Athens
Garber, Ginevra Edna.....	Athens
Harris, Bess Putnam	Athens
Henry, Francis Beardsley.....	Athens
Holcomb, Anselm Tupper, Jr.....	Portsmouth
Irwin, Algernon Charles.....	South Perry
Johnston, Fred Preston.....	Trimble
Lamb, George Franklin.....	Greencastle
McLaren, James Walter.....	Marietta
Morgan, Thurman Leroy.....	Waverly
Neff, Mary Belle.....	Anvil

Neff, Nora.....	Anvil
O'Bleness, Mame.....	Athens
Paine, Howard Sheperd.....	Hamden Junction
Pickering, Nellie Marcus.....	Athens
Pilcher, Benjamin Luther.....	Canaanville
Reah, Mary	Zaleski
Riley, Ethel Eleanor.....	Guysville
Scott, Grace Greenwood.....	Athens
Scott, Paul Raymond.....	Athens
Sheldon, Walter Rice.....	Athens
Wood, James Perry, Jr.....	Athens
Wood, Mary Ellen.....	Athens

FRESHMEN.

Bean, Harry Elijah.....	Athens
Beckler, Herbert Sheldon.....	Athens
Biddle, Asher Cadden.....	Fisher
Black, Flora Miriam..	Glen Ebon
Brunner, Henry.....	Portsmouth
Cable, Will Ransom.....	Athens
Cave, Edward Ulysses.....	Lancaster
Conner, Flora Terhune.....	Athens
Cornwell, Sadie Tamzon.....	Athens
Coultrap, Floyd Erie.....	Athens
Courtright, Harry Frederick.	Tappan
Craig, Thomas Watson.....	Athens
Dean, Minnie Foster.....	Athens
Dew, Pearley Leroy.....	Athens
Emory, Charles Merton.....	Flat
Glazier, Lena Blanche.....	Athens
Haddox, Corydon Haven.....	Athens
Hambleton, Antrum Marion.....	Hooksburg
Hambleton, Benjamin Franklin.....	Athens
Headley, Sanford Alphonso.....	Jacksonville
Kirkendall, Emmett Royal.....	Athens
Lapp, George Harlan.....	Will's Creek
McCord, Horace Minor.....	Commercial Point
McGirr, Mabel.....	New Lexington
Matheny, William Martin.....	Shade
Micklethwait, Joseph Timmond	Portsmouth

Mitchell, John Andrew.....	Murray City
Mutchler, Finley Guy.....	Rutland
Nease, Nannie Louise.....	Point Pleasant, W. Va.
Pickering, Fred Stewart.....	Athens
Prushing, David Thompson.....	Commercial Point
Roberts, Pearl.....	Millfield
Seeds, Otto Fenton.....	Commercial Point
Sheppard, Carl Dunkle.....	McArthur
Smith, Thomas Maynard.....	Rutland
Sprague, Jennie Edyth.....	Millfield
Sullivan, Fred T.....	Warwick, N. Y.
Williamson, Frances	Amanda
Williamson, Lissa.....	Amanda
Winter, Samuel Guy.....	Crooksville
Wood, John Vorhes.....	Athens
Zang, Jacob Milton.....	Newport, Pa.

IRREGULAR AND SPECIAL STUDENTS.

Barker, Jannette Stright.....	Marshfield
Kaler, Charlotte Rannells, B. Ph.....	Athens
Linton, Nancy E.....	Frost
Marlowe, Anna Gertrude.....	Toledo
Merwin, Addie Tullis	Athens
Paine, Fannie Elizabeth.....	Jackson
Purdy, Mossie Pearl.....	Athens
Slattery, Mary L.....	Athens
Zeller, Frank Parthenia.....	Camp Chase

THIRD PREPARATORY.

Arcott, Harriet Stearns.....	Athens
Biddison, Cladius L.....	Glouster
Biddle, John Sabine.....	Fisher
Biddle, Victor.....	Fisher
Bingham, Lavina Maud	Athens
Bishop, Lenora Belle.....	Athens
Blake, Vause.....	Lockbourne
Brown, James Nelson.....	Albany
Browne, Lulu Cecile.....	Athens
Cable Clarence Wesley.....	Athens

Clayton, Earle Sloane.....	Athens
Coultrap, Harry Mansfield.....	McArthur
De Vore, Rose Elizabeth..	Nelsonville
Dieterich, William Wallace.....	Piketon
Elder, Adam Griggs.....	Athens
Ely, George Leonard.....	Wellston
Finsterwald, Homer Grosvenor.....	Athens
Gabbert, Nan Maria.....	Point Pleasant, W. Va.
Heston, Frank M.....	Amesville
Higgins, Cyrus Dow.....	Athens
Hooper, George Eldon.....	Pleasanton
Hoover, Thomas Nathanael.....	Piketon
Hopkins, Hannah Jane.....	Downington
Howe, Mary Blanche.....	Athens
Hugg, Myrta Aurilla.....	Rutland
Huntley, Burl Emmett.....	Wellston
Imes, Leroy Laney.....	Marshfield
Lopez, Jose Antonio.....	Arecibo, Puerto Rico
McPherson, Joseph Elwyn.....	Jasper
Mace, James Elwood.....	Buchtel
Mitchell, William Harvey.....	Murray City
Mohler, Nellie Blanche.....	Albany
Murphy, Sarah Cyrenna..	Middleport
Peters, Crissie May.....	St. Paul
Peters, Zora Medora.....	St. Paul
Place, Benoni Austin.....	Qualey
Rickey, Lester.....	Creola
Roach, Clarence Wayne.....	Athens
Robbins, Eva.....	Mineral
Roberts, William Jason.....	Lysander
Robinett, Stephen Edward.....	Marshfield
Russell, Nettie Gertrude.....	Lottridge
Smith, Murray Franklin.....	McArthur
Smith, Stanley Emerson.....	Centerburg
Spencer, Holmes Augustus	Parkersburg, W. Va.
Steenrod, Estella Wynona.....	Athens
Stiers, Eva M.....	Zaleski
Tinker, Fred Huntington.....	Athens
Tuttle, Eugene Vivian.....	Palmyra
Ullom, Helen Macbeth.....	Athens
Ulmer, Ray Francis.....	Athens

Waggoner, Chauncey William.....	Sugar Grove
Walsh, Stella Catherine.....	Athens
Watkins, Daisy Maud.....	Logan
White, Ennis Leslie.....	Malta
Wolfe, Arthur Almer.....	Athens
Wood, Anna Estella.....	Smithfield
Yoshisaka, S.....	Kobe, Japan
Zimmerman, Emmett Walter.....	Albany

SECOND PREPARATORY.

Allen, Helen Sue.....	Hebbardsville
Allen, Mary Besse.....	Hebbardsville
Arscott, Mary Elizabeth.....	Athens
Barker, Dolly Beatrice.....	Athens
Barker, Joseph Frederick.....	Athens
Bartlett, Harry Guthrie.....	Athens
Beckler, Harley Eugene.....	Athens
Bennett, Jesse Edmund.....	Marchmont
Biddison, William Tolbert.....	Glouster
Biddle, Cleophas Genevieve.....	Fisher
Biddle, Frank.....	Fisher
Biddle, Nancy Louise.....	Fisher
Bingham, Harry Barker.....	Athens
Boblitt, Homer Clifford.....	Vigo
Bone, Pinckney S.....	Kinderhook
Bowman, Charles Foster.....	Bartlett
Brown, Harry.....	Athens
Carleton, Anna Matilda.....	Coolville
Clendenin, Mattie Lulu.....	Albany
Clester, William Albert.....	Grosvenor
Cooley, John Parker.....	Albany
Cooper, Margaret Maude.....	Albany
Cuckler, Valca Valentine.....	Chase
Cunius, Neiman Richard.....	Drums, Pa.
Dalton, Ralph Augustus.....	Athens
Davis, Albert Sylvester.....	Marshfield
Dinsmoor, Mid Earl.....	Garden
Figley, Charles Clifford.....	Athens
Garber, Mayme.....	Athens
Graham, Arthur Anson.....	Bartlett
Gross, Charles William.....	Athens

Gross, Fred Edward.....	Athens
Haddox, Louis Henry.....	Athens
Hawk, Constance Louise.....	Athens
Heston, Eber Forest.....	Glouster
Hewitt, Arthur William.....	Mineral
Hope, James Garfield.....	Athens
Humphrey, William Emerson.....	Rutland
Ihle, Waid.....	Great Bend
Imes, Richard Price.....	Marshfield
Jones, Albert Johnson.....	Athens
Jones, Alva Blanche.....	Glouster
Josten, Arthur.....	Anthony
Josten, James Mathis.....	Athens
Juniper, Edward Lorenzo.....	Nelsonville
Kennard, Minnie Theora.....	Carbondale
Kennard, Moses Herbert.....	Carbondale
Lash, Florence Alice	Athens
McDaniel, Charles Wilbert.....	Starr
McDaniel, John Edmon.....	Pomeroy
McLaughlin, George Evert.....	Adena
Matheny, William Alderman.....	Beaumont
Matthews, Lois Alameda	Sunbury
Maullar, Frank Byron.....	Gillespieville
Moore, Emmett Augustus.....	Anthony
Morrison, William Guy.....	Pleasanton
Motter, Edwin Cameron.....	Gillespieville
Needham, Fred Coates.....	Athens
Ogborn, Fred Dwight.....	Athens
Pedigo, Clara Alice.....	Nelsonville
Perry, William Albert.....	Beaumont
Peters, Frank Milton.....	Athens
Pinkerton, Elsie Geraldine.....	Athens
Poston, Frank Alton.....	Siloam, W. Va.
Reading, Laura Lorinda.....	Shade
Scott, Nellie Rutledge.....	Athens
Stage, William Addison.....	Athens
Swain, Clement Celsus.....	Columbus
Taylor, Lucy May.....	Tappan
Welling, Michael Clifford.....	Chauncey
Williams, Anna Pearl.....	Shade
Willis, Eugene Pearle.....	Athens

Willis, Olney Carl.....	Athens
Wilson, Homer Absalom.....	Rehoboth
Wood, Mayme Samaria.....	Athens
Young, Evalene.....	Marshfield

FIRST PREPARATORY.

Andrews, James Garfield.....	Derthick
Armstrong, Ada Belle.....	Cove
Ayres, Albert Ellwood.....	Hebbardsville
Baker, Winifred Cleveland.....	Athens
Beam, Eliza	Garden
Bean, Frances Marie.....	Canaanville
Bennett, John Madison.....	Nelsonville
Bethel, Webb Garfield.....	Athens
Biddle, Frances Lillian.....	Fisher
Biddle, James Kester.....	Fisher
Bobo, Ola Marie.....	Athens
Botkin, Estella May.....	Torch
Burgess, Grace Jennie.....	Bartlett
Burke, Charles Edmund.....	Vigo
Campbell, Eugene Grant.....	Hemlock Grove
Christman, George Washington.....	Judson
Christman, Jacob.....	Hull
Clendenin, Antoinette Jean.....	Albany
Climer, Jessie.....	Vigo
Cook, Alice Gertrude.....	Chauncey
Cook, Annie Laurie..	Chauncey
Cox, Clifford Clarence.....	Gillespieville
Cox, Joseph G.....	Gillespieville
Crippen, Maud.....	Frost
Cross, Julia Bessie.....	Racine
Crossen, Maude Belle.....	Athens
Cullums, Dean Lewis	Canaanville
Daugherty, Edna Claire.....	Trimble
Davis, Mabel.....	Big Run
Dempster, Lizzie Augusta.....	Chauncey
Dillinger, Herbert Franklin.....	Lysander
Dinsmoor, Anna.....	Garden
Dinsmoor, Pearl.....	Garden
Dixon, Roy C.....	Gillespieville
Drake, Pearl Groe... ..	Hebbardsville

Druggan, Charles Sumner.....	Chauncey
Dulaney, Harlan Herbert.....	Mountville
Dumaree, Charles Henry.....	Knox
Duncan, Byrde Rebecca.....	Athens
Edmundson, Clyde Joseph	Athens
Farmer, Luke Hays.....	Athens
Finsterwald, Blanche Marie.....	Marchmont
Finsterwald, Ollie Delle.....	Marchmont
Francis, Warren Frederick.....	Athens
George, Blanche Hibbard.....	Hebbardsville
Gift, Caddius Dow.....	Hebbardsville
Gillette, Alva Roger.....	Marchmont
Goddard, Archibald Henry.....	Haverhill
Green, Maud May... ..	Sand Run
Green, Pearl Nash.....	Snowville
Green, Sarah Bessie.....	Snowville
Guthrie, Alma.....	Garden
Guthrie, Joseph Arthur.....	Garden
Haddox, Lillie.....	Athens
Harmon, Clara.....	Coolville
Harper, Elmer E.....	Jackson
Hill, Pearl Dwight.....	Canaanville
Hixon, Peter Edward.....	Hixon
Hollis, Charles.....	Pepper's Station
Hooper, Lulu Belle.....	Pleasanton
Hysell, Worthy.....	Middleport
Jack, Jesse Wallace.....	Chase
Jacoby, Cleola.....	Sand Run
Johnson, Nettie Tabitha.....	Fisher
Kelley, Alma Frances.....	Athens
Kelley, Lewis Weitzel.....	Athens
Kennard, Mattie Estella.....	Carbondale
Kennard, Susie Arminta.....	Carbondale
Kessler, Pearly Alwyn.....	Hawks
King, Estella Jane.....	Glouster
Kittle, Frederick F.....	Trimble
Lantz, Elmer Harry.....	Trimble
Lee, William Henry.....	Creola
Linscott, Flossie Edith.....	Canaanville
Linscott, Nehemiah Warren.....	Canaanville
Luckett, Sarah Letitia.....	Albany

McCaughey, Charles Wilson.....	Fultonham
McClannahan, John Claudius.....	Athens
McVay, Lina.....	Hebbardsville
Mansfield, Blanche May.....	Guysville
Mason, Lenna Beatrice.....	Trimble
Matheny, Clarence Albert.....	Beaumont
Metcalf, William Edward.....	Carpenter
Miller, Guy Dolphus.....	Athens
Mills, Edward Allen.....	Athens
Mosure, Charles Franklin.....	Hebbardsville
Norton, Willey Higbey.....	Sabot Island, Va.
Patterson, Lena Estella.. ..	Hebbardsville
Phillips, William Richard.....	Athens
Pickett, Mary Katherine.....	Athens
Poore, James.....	Berlin Roads
Powell, Flora.....	Broadwell
Pratt, Vira.....	Athens
Preston, Lorenzo Perry.....	Athens
Ratcliff, George Howard.....	Gillespieville
Reeves, Myrtle Lorena.....	Snowville
Riley, Walter Emmet.....	Hull
Roach, Donna.....	Athens
Robbins, Alfred Lewis.....	Dundas
Robinett, Amanda Louisa.....	Albany
Russell, Lena L.....	Jobs
Sergeant, Edna May.....	Buchtel
Sidders, Eva Myrtle.....	Athens
Sidders, Mabel Glendora.....	Athens
Skinner, Bertha Marie.....	Big Run
Smith, Henry Charles.....	Stella
Stoltz, Alma Mary.....	Rushville
Stout, Elmont.....	Alfred
Turben, Emery.....	Bartlett
Waterman, Carrie.. ..	Coolville
Weiss, Jessie Estella.....	Athens
Welling, James Reed.....	Chauncey
Whitmore, Charles Judge.....	Buchtel
Wilkes, Mabel Wilhemine.....	Rawndale
Wilson, Anna Cowan.....	Shade
Wilson, Edythe Mae.....	Nelsouville

Wilson, Ellen Veronica.....	Buchtel
Woodworth, Eugene Earl.....	Athens
Wrightsel, Bertha Ethel.....	New Plymouth
Young, Bertha Edna.....	Glen Ebon
Young, Lulu Elizabeth.....	Marshfield
Zimmerman, Marcus Dawes	Albany

COMMERCIAL DEPARTMENT.

COURSE COMPLETED.

Bean, Elijah Harry (Business and Stenography).....	Athens
Bingham, Maud Lavina (Stenography).....	Athens
Bishop, Nellie Adele (Stenography	Athens
Brown, Daisy Aldine (Stenography).....	Athens
Cornwell, Sadie Tamzon (Business).....	Athens
Curtis, Grace Undine (Stenography).....	Athens
Garber, Ginevra Edna (Business).....	Athens
Gillett, Bertha (Business).....	Athens
Gregg, William Rea (Stenography).....	Winchester
Harris, Bess Putnam (Stenography).....	Athens
Hopkins, Hannah Jane (Business).....	Downington
Jones, Alva Blanche (Business).....	Glouster
Josten, Arthur (Business).....	Anthony
Kennard, Moses Herbert (Business).....	Carbondale
Lapp, George Harlan (Business).....	Will's Creek
Logan, Clade Landen (Stenography).....	Athens
Murphy, Sarah Cyrenna (Business and Stenography).....	Middleport
Perry, John Edmund (Business and Stenography).....	Beaumont
Pierre, Edith (Business and Stenography).....	Buchtel
Root, Edna Elizabeth (Stenography).....	Athens
Ross, Eva (Stenography)	Rue
Zimmerman, Emmet Walter (Business and Stenography).....	Albany

COURSE UNFINISHED.

Arcott, Harriet Stearns.....	Athens
Ator, Elizabeth.....	Shade
Baird, Mattie Estella.....	Sand Run
Bartlett, Harry Guthrie.....	Athens

Bell, Bessie Florence.....	Athens
Brunner, Henry.....	Portsmouth
Carpenter, Roll Franklin.....	Athens
Chase, Bertha Ellen.....	Albany
Clayton, David Roy.....	Athens
Dalrymple, Marie.....	Athens
Drake, Winifred Walsh.....	Corning
Earhart, John Douglas.....	Athens
Goddard, Archibal Henry.....	Haverhill
Green, Maud May.....	Sand Run
Hope, James Garfield.....	Athens
Horn, Bernice Leroy.....	Athens
Humphrey, Oren Earl.....,	Rutland
Ihle, Waid.....	Great Bend
Johnston, Fred Preston.....	Trimble
Josten, James Mathis.....	Athens
Kessler, Pearly Alwyn.....	Hawks
Keyes, Earl Fenton.....	Winchester
Matheny, Marie Ethel.....	Shade
Matheny, Charles Morris.....	Athens
McCord, Horace Minor.....	Commercial Point
Mercer, Francis Marion.....	Hooksburg
Mills, Clara Ginevra.....	Athens
Mosure, Charles Franklin.....	Hebbardsville
Mutchler, Finley Guy.....	Rutland
Paine, Howard Sheperd.....	Hamden Junction
Peters, Frank Milton.....	Athens
Pilcher, Benjamin Luther.....	Canaanville
Robbins, Eva.....	Mineral
Thompson, Bernard Heatherly.....	Athens
Welling, Michael Clifford.....	Chauncey
White, Gershom Franklin.....	Malta
Wilson, Edythe Mae.....	Nelsonville
Wolfe, Arthur Almer.....	Athens
Wood, James Perry, Jr.....	Athens
Wood, John Vorhes.....	Athens
Woodworth, Estella Minerva.....	Millfield
Zimmerman, Marcus Dawes.....	Albaux

MUSIC STUDENTS.

Armstrong, Ada Belle.....	Cove
Bethel, McKinley.....	Athens
Black, Flora Miriam.....	Glen Ebon
Brown, Elizabeth Ina.....	Millfield
Cable, Don C.....	Nelsonville
Chappelear, Emma Ellen.....	Athens
Chappelear, Hettie Blanche.....	Athens
Clark, Grace.....	Glouster
Climer, Jessie.....	Vigo
Coe, Mary Elsie.....	Hebbardsville
Cornwell, Sadie Tamzon.....	Athens
Craig, Florence Maude, Ph. B.....	Athens
Craig, Thomas Watson.....	Athens
Cuckler, Minnie Luella.....	Athens
Davis, Edith Louise.....	Athens
Dempster, Amelia Christine.....	Chauncey
Dempster, Sadie Lorena.....	Chauncey
De Vore, Rose Elizabeth.....	Nelsonville
Dickason, Clara.....	Athens
Eaton, Edith Mildred.....	Athens
Elder, Adam Griggs.....	Athens
Evans, Jacob Claire.....	Athens
Francis, Millie Belle.....	Athens
Fuller, Nellie Mary.....	Athens
Fulton, Lula.....	Athens
Galaway, Octa Dell.....	Mt. Blanco
Glazier, Lena Blanche.....	Athens
Irwin, Algernon Charles.....	South Perry
Irwin, Rochester.....	South Perry
Hines, Hattie May, A. M.....	Athens
Hooper, Olah Angell.....	Athens
Hope, Ella.....	Athens
Jacoby, Cleola.....	Sand Run
Jones, Albert Johnson.....	Athens
Juniper, Edward Lorenzo.....	Nelsonville
Millikan, Agnes Dyson.....	Athens
Moore, Helen Louise.....	Athens
Neff, Mary Belle.....	Anvil
Neff, Nora.....	Anvi

Paine, Fannie Elizabeth.....	Jackson
Parker, Emmett.....	Anthony
Parker Everett.....	Anthony
Pedigo, Clara Alice.....	Nelsonville
Pendergrass, Maud.....	Chauncey
Peters, Crissie May.....	St. Paul
Pickering, Mary Elizabeth.....	Athens
Reah, Mary.....	Zaleski
Roach, Eva May.....	Athens
Roseboom, Lulu Belle.....	Frankfort
Russell, Lena L.....	Jobs
Sackett, Florence Margaret.....	Athens
Scott, Anna Marie.....	Athens
Scott, Grace Greenwood.....	Athens
Sisson, Blanche.....	Nelsonville
Slattery, Mary L.....	Athens
Smith, Grace.....	Marchmont
Smith, Stanley Emerson.....	Centerburg
Spencer, Holmes Augustus.....	Parkersburg, W. Va.
Swaim, Clement Celsus	Columbus
Taylor, Lucy May.....	Tappan
Ullom, Helen Macbeth.....	Athens
Waggoner, Chauncey William.....	Sugar Grove
Walker, Mary.....	Athens
Walker, Nell Hutchens.....	Athens
Walsh, Emma Evelyn.....	Athens
Warren, Samuel C.....	Athens
Watkins, Daisy Maude.....	Logan
Welch, Frances.....	Athens
Wilson, Homer Absalom.....	Rehoboth
Wood, Mary Ellen.....	Athens
Zang, Jacob Milton.....	Newport, Pa.
Zeller, Frank Parthenia.....	Camp Chase

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	<hr/>
	516
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Total.....	<hr/>
	441

Alumni Association.

Constitution.

ARTICLE I. This Association shall be called the "Alumni Association of the Ohio University."

ART. II. The Officers of the Association shall be a President, Vice President, Secretary, Treasurer, and an Executive Committee, consisting of three members, to be chosen annually.

ART. III. The annual meetings of this Association shall be held in connection with the Commencement exercises of the University.

ART. IV. The object of this Association shall be to cultivate fraternal relations among the Alumni of the University, and to promote the interests of our Alma Mater by the holding of social reunions, by literary exercises, or by such other means as the Association may, from time to time, deem best.

ART. V. Any member of the Faculty, and graduate of the University, also any one who has spent three years in the college classes of the University, and has been honorably dismissed, may, by the payment of one dollar and the signing of the Constitution, become a member of this Association.

ART. VI. This Constitution may be altered or amended at any annual meeting, by a vote of two-thirds of those present at such meeting.

ART. VII. *Amendment.* The members of this Association shall each pay into its treasury an annual fee of one dollar, and the sum so paid shall be expended in defraying the expenses of the annual reunion.

OFFICERS OF THE ALUMNI ASSOCIATION.

President, L. G. Worstell, '88.

Vice-President, Professor B. O. Higley, '92.

Secretary, Miss Mary Ullom, '96.

Treasurer, C. M. Copeland, '96.

EXECUTIVE COMMITTEE.

Mrs. E. D. Sayre, '88.

Miss Amy Weihr, '95.

L. M. Jewett, '61.

W. B. Lawrence, '92.

I. M. Foster, '95.

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CATALOGUE

LIBRARY
OF THE
UNIVERSITY of ILLINOIS.

OF THE

OHIO UNIVERSITY

ATHENS,

FOR 1900-1901.

AND

CIRCULAR OF INFORMATION

FOR 1901-1902.

SUPPLEMENTARY MATTER WILL APPEAR IN THE BULLETIN
FOR JULY, 1901.

1901
THE MESSENGER AND HERALD PRINTING CO.,
ATHENS, OHIO.

Calendar for 1901-1902.

FALL TERM begins September 10, ends December 21, 1901.

WINTER TERM begins January 7, 1902 and ends March 21.

SPRING TERM " April 1, " " June 19.

COMMENCEMENT EXERCISES, June 15-19.

June 19, Commencement.

Corporation.

Board of Trustees.

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Charles W. Super.....	Athens.....	
Hon. George W. Boyce.....	Cincinnati.....	1875
Hon. V. C. Lowry.....	Logan.....	1885
L. M. Jewett, Esq.....	Athens.....	1887
R. E. Hamblin.....	Toledo.....	1890
C. C. Davidson, A. M.....	Alliance.....	1891
Prof. A. Leue, Ph. D.....	Cincinnati.....	1891
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Albert Douglas, Esq.....	Chillicothe.....	1897
Hon. H. W. Coultrap.....	McArthur.....	1897
D. H. Moore.....	Athens.....	1898
Thomas Blackstone, M. D....	Circleville.....	1898
Israel M. Foster, Esq.....	Athens.....	1900
T. Rollen Biddle, M. D.....	Athens.....	1900

Officers of the Board.

C. W. SUPER, President.

A. J. FRAME, Treasurer.

L. M. JEWETT, ESQ., Secretary and Auditor

Faculty.

CHARLES WILLIAM SUPER, Ph. D., LL. D.,
President and Professor of Greek.

DAVID J. EVANS, A. M.,
Professor of Latin.

WILLIAM HOOVER, Ph. D., L. L. D.,
Professor of Mathematics and Astronomy.

ALBERT A. ATKINSON, M. S.,
Professor of Physics and Electrical Engineering.

BREWSTER OWEN HIGLEY, M. Ph.,
Professor of History and Political Economy.

WILLIAM FAIRFIELD MERCER, Ph. D.,
Professor of Biology and Geology.

WILLIAM B. BENTLEY, Ph. D.,
Professor of Chemistry.

FRANK C. DOAN, A. B., A. M.,
Professor of Psychology and Pedagogy.

EDWIN TAUSCH, Ph. D.,
Professor of Philosophy.

EDWIN W. CHUBB, Litt. D.,
Professor of Rhetoric and English Literature.

OHIO UNIVERSITY.

ELI DUNKLE, A. M.,
Associate Professor of Greek and Principal of the Preparatory
Department.

KATE CRANZ, A. M.,
Associate Professor of German and French.

H. ROY WILSON, A. M.,
Associate Professor of English.

CHARLES M. COPELAND, B. Ped.,
Principal of the Commercial Department.

JAMES PRYOR MCVEY,
Instructor on the Piano and in Voice Culture.

NELLIE H. VAN VORHES,
Assistant Instructor on the Piano.

M. ARTHUR ELY,
Instructor on the Violin.

MARIE LOUISE STAHL,
Instructor in Drawing and Painting.

MABEL K. BROWN, Ph. B.,
Instructor in Stenography and Typewriting

FRANCIS H. SUPER, B. S.,
Assistant in Electrical Engineering.

ELI DUNKLE,
Secretary and Librarian.

CHARLES G. MATHEWS, Ph. M.,
Assistant Librarian

General Information.

Ohio University.

ORIGIN OF THE UNIVERSITY.

The existence of the Ohio University was provided for as early as 1787, in the purchase made from the Government of the United States by the Ohio Company of Associates. By the contract between these two parties, two townships of land were set apart for the purpose of a University, and placed under the care of the Legislature of the State. The University was organized under an act of the Legislature passed in 1804. Its Trustees are appointed by State authority and the Governor of the State is, *ex-officio*, a member of the Board.

LOCATION.

Athens, the seat of the University, is situated in the southeastern part of the State. It is easily accessible from the east and west by the Baltimore and Ohio Southwestern Railroad and its branches; from the central and northern portions of the State by the Columbus, Hocking Valley and Toledo, and Kanawha and Michigan Railways. By these routes it is about one hundred and sixty miles east from Cincinnati and

seventy-five miles southeast from Columbus. The sanitary arrangements of the town are unsurpassed. Its principal streets are paved; it is provided with waterworks and sewerage; its board of health is vigorous and efficient. There are few towns in the country that are more desirable as a place of temporary or permanent residence than Athens.

The lover of natural scenery cannot fail to be charmed with its picturesque surroundings. The winding valley of the Hockhocking and the wooded hills beyond, present a series of lovely views from the University, while the wide prospects, as seen at certain seasons from some of the neighboring summits, are seldom surpassed in quiet and varied beauty.

The University buildings are located in a beautiful campus. They occupy a slight elevation extending east and west across the grounds, fronting the north. Before them lies a park of about five acres containing a grove of fine forest trees and skirted along its northern limit by a row of magnificent elms. Beyond these sentinel trees extends a green sward sloping beautifully to the street. In front of the line at the northwest angle stands an elegant soldier's monument. When this park is lighted up at night by electricity it presents a charming view. The remainder of the campus, which is in the rear of the buildings, is devoted to recreation.

BUILDINGS.

These are of brick and six in number. The central building was erected in 1817, and is the oldest college edifice northwest of the Ohio River. This venerable

structure is dear to many by strong and tender associations, and to many more by means of eminent men who have here studied and taught. It has been modernized and is admirably adapted to its uses for college work.

The two wing buildings once used for dormitories have been transformed into recitation rooms and laboratories.

The chapel building in the rear of the central building is used by the musical department. In the second story are society halls with committee rooms attached.

The new Administration Hall now completed is one of the finest college buildings in southeastern Ohio. It is a T-shaped structure, four stories high including basement, and measures 156 feet in length by 131 in depth. Within is an auditorium, with gallery, furnishing seating capacity for about nine hundred people. It contains a president's office, nine recitation rooms with professor's offices attached, the laboratories of the Department of Physics, a trustees' and secretary's office, the rooms of the commercial department, art rooms, and a gymnasium in the basement with four thousand square feet of floor. The methods of heating and arrangement of detail are modern and well adapted to educational work.

LADIES' HALL.

This is located nearly opposite the north entrance of the campus. It is a fine, commodious brick structure, heated by steam, where beautiful rooms are occupied by lady teachers and students. Excellent boarding can be had at moderate cost at the hall.

Hereafter all young ladies who are not residents

of Athens will be required to reside in the dormitory unless the rooms are all occupied. Only in special cases will exceptions be made. This regulation has been adopted with a view solely to the best interests of the young ladies themselves and not with any purpose to restrict them in the enjoyment of every legitimate privilege. It is the aim of the management to make the place as attractive and pleasant as possible and at the same time to keep the cost as low as is consistent with the accommodations provided. The cost will range from \$3.25 to \$4.00 per week according to size and location of room. Everything is furnished except soap and towels. About thirty young ladies can be received.

LIBRARY AND READING ROOM.

In the study of Literature and History the most important aid, in addition to a good teacher, is a large stock of well selected books. In this respect the O. U. is liberally provided. The college and society libraries contain about 15,000 volumes, a large part of which are of recent purchase. In addition to the books of a general character, the private libraries of the professors, which contain works of a more special character to the number of several thousand, are also accessible, under certain limitations, to the students. The reading-room furnishes access to the latest contributions on all topics under current discussion. Some of the larger works are not only useful for reference, but also for purposes of original investigation.

It is the special aim of the managers of the

Library to acquire as rapidly as issued all the leading works bearing on Pedagogy whether in German, French or English. A large number of works on this topic and the history of education is already on hand. The Library is so managed as to be accessible every day. The reading room, in which are placed most of the reference books and all the periodicals, is accessible at all times. The reading of well chosen books not only tells the student what others have thought in every department of knowledge, but likewise stimulates him to think for himself. A good library is of itself a university.

APPARATUS AND CABINET.

The departments of Mathematics, Astronomy, Physics, Chemistry, and Biology are well equipped with valuable apparatus, which is put at the personal disposal of the student. The subjects are illustrated upon the lecture table, but it is insisted upon that a student really enters upon possession of his knowledge only when he has acquired skill in carrying on laboratory experiments by himself under the supervision of the professor.

The large Biological Laboratory has been fitted up with appliances suitable for pursuing extensive courses of study in the various departments of Biology, the selections being made with a view to furnishing each student with such apparatus, reagents, etc., as are necessary for independent work. To this end more than a score of microscopes has been provided and many duplicates of other appliances are at hand. Excellent histological apparatus is in use for freezing

and sectioning, and the laboratory is also well equipped for embryological and bacteriological work.

In the department of Physics, besides balances, specific gravity apparatus, pulleys, centrifugal devices, pumps, barometers, manometers, pendulums, and a great deal of other apparatus for the demonstration of the principles and laws of mechanics, etc., there are; a set of mounted tuning forks for bows, a complete set of electromagnetic forks of various pitches, sonometer, siren, pipes, etc., for work in sound; lenses, prisms, mirrors, polariscopes, spectroscope, spectrometer, diffraction gratings, projecting lantern, cameras, etc., for light; radiometers, thermometers, calorimeters and other apparatus for heat; and a very good equipment of dynamos, motors, calibrating and measuring instruments, resistances, galvanometers, condensers, magnetometers, induction coils, batteries. Wheatstone bridges, various forms of reversing switches and keys electrometers, standard cells, electrodynometers and a great deal of other apparatus suited to the general demonstration of the subject of electricity and magnetism, and to the requirements of the electrical course outlined elsewhere in this catalogue.

The chemical laboratory is equipped for work by the students in general chemistry, qualitative and quantitative analysis, and organic chemistry. The work tables for students are supplied with water and gas. Hoods are supplied for experiments upon the noxious gases. A still is set up for the continuous production of distilled water. The apparatus required by the student for the laboratory work is loaned to

him and payment required at the end of the term only for what is missing or has been broken.

A fine set of surveying instruments of the most approved kind has recently been purchased for the students in field work. The cabinet affords important aid in the study of Mineralogy and Geology. But we are greatly in need of further contributions thereto, and to this end the assistance of the friends of the institution is greatly desired and earnestly solicited.

MAPS AND CHARTS.

An excellent set of maps, chiefly those of Kiepert, intended to illustrate the physical features and political changes of the historical countries of Europe and the East has lately been added to the equipment of the institution. These, in addition to those already on hand, afford an important and well-nigh indispensable aid to the study of history and geography. The outfit in this regard is believed to be unusually complete.

ADMISSION AND DISCIPLINE.

Entering the University will be considered a pledge to obey its rules and regulations. These are few and simple, appealing to the students self-respect and sense of personal responsibility. Persons of known bad character or of lazy habits are not wanted and will not be retained unless they show a decided desire to reform. Students from other colleges must present certificates of honorable dismissal.

Candidates for advanced standing are, in all cases examined to ascertain their thoroughness and

proficiency; but certificates from other institutions will be accepted for the amount of work done in the different department.

In exceptional cases students are admitted to classes for a week on trial, without examination, provided the professors in charge are reasonably certain that they can maintain their standing.

Ladies are admitted to all departments of the University on the same terms and under the same conditions as those prescribed for young men.

A record is made of the daily work of each student. When the standing of the student, as shown by this record and examination, falls below an average grade of 70 per cent., he must review the study. A record is also kept of each student's deportment. A low standing in either record is followed by private admonition, and notice is given to the parent or guardian.

Whenever the conduct of a student is such as to indicate that he is unfit to be a member of the University, either because of immorality or because of habitual neglect of his college duties, he will be requested to withdraw. But in the latter case, his parents will first be notified, and if he is not withdrawn within a reasonable time, he will be dismissed.

Stress is laid upon the fact that no young man or woman need hesitate to enter the Ohio University for lack of means, or because of inadequate preparation. The surest guaranty of success is an honest and determined effort to succeed. If the student has learned nothing more during the years spent in college than how to study and how to investigate any subject of

which he takes hold, no matter ~~how~~ meager his knowledge may be at the start, he ~~will be~~ able to enlarge it with astonishing rapidity. ~~His~~ time thus spent, whether it be measured by ~~terms~~ or years, will have been wisely employed. Our age is sadly in need of men and women who have such a preparatory training for life's duties.

RELIGIOUS INFLUENCE.

Students are required to be present at roll-call and prayers in the chapel every morning, unless excused by the Faculty, and to attend public worship on the Sabbath; but the choice of the place of attendance is left with the student or his parents. A student's prayer meeting is held once a week, at which attendance is optional. The University is not sectarian, and no effort is made to inculcate the doctrines of any particular creed or denomination; but the utmost care is taken to promote sound and healthy religious sentiments. We feel sure that nowhere do these matters receive more careful attention.

The founder of the Ohio University believed that "religion, morality and knowledge are necessary to good government and the happiness of mankind;" and it has been the steady purpose of those to whom has been entrusted the duty of carrying out his plans to insist on the intimate relation existing between the three. The good man, the good citizen is not he who is best informed, but he who is constantly inspired with the thought that his knowledge should be used for the good of his fellow-men. Knowledge without virtue is a curse and not a blessing. It is the con-

stant policy of both Trustees and Faculty to inspire students with the love of knowledge, and with desire to practice religion and morality. Accordingly only those persons are invited to profit by the means of instruction here placed within their reach, who are willing to conform their conduct as far as possible to the teachings of the Bible. We expect students who have spent some time with us to depart not only wiser but also better than they came. If such is not the case it will not be for want of care on the part of the Faculty

YOUNG PEOPLE'S CHRISTIAN ASSOCIATION.

Both the Y. M. C. A. and the Y. W. C. A. have flourishing organizations connected with the Ohio University, and a large proportion of the students are members of one or the other. These hold meetings weekly or oftener, provide lectures on religious or Biblical topics, and take an active interest in promoting the spiritual, moral and intellectual welfare of the entire student body. The management of the University is in hearty sympathy with these organizations and does all that is possible to aid them in their work. The Y. M. C. A. especially, is one of the most vigorous among the colleges of the State.

FEES.

There is no charge for tuition in any of the regular preparatory or collegiate classes. But all students pay a registration fee of five dollars per term. Besides this, instruction in the following

branches is to be regarded as extra and must be paid as follows:

Piano lessons or voice culture, per term, two lessons per week	\$10 00
Use of piano one hour per day, per term	3 00
Bookkeeping and allied branches, per term	5 00
Stenography and typewriting	5 00
Painting	10 00

The regular fee in Chemistry and Electrical Engineering is one dollar per term to cover the cost of materials used. To this should be added a small charge for breakage—to careful students usually not more than a few cents. After the second term in Chemistry the regular fee is two dollars per term.

Those students who wish to pursue studies privately in the college departments for which they desire to have credit toward the attainment of a degree, will be required to pass an examination on each branch, and for this examination an extra fee of \$5 will be charged, which may, however, be remitted by a vote of the Faculty.

All fees must be paid within the first thirty days of the term. No exception can be made to this regulation. The registration fee must be paid when the student enters.

EXPENSES.

Board can be obtained within a reasonable distance of the University at \$2.75 per week. By forming clubs, students may board at \$2.00 per week. Those students whose circumstances require it, are allowed to board themselves, by which means their expenses may be still further reduced; but this plan is not recommended, because likely to be prejudicial to health.

The actual cost of an education at the University will depend very much upon the disposition and habits of the students. The necessary cost is very low—as low as that of any institution affording equal advantages. It is earnestly recommended to parents not to furnish their sons or daughters with extravagant means. The scholarship and character of a student are often injured by a free indulgence in the use of money. Whatever is beyond a reasonable supply exposes him to numerous temptations and endangers his success and respectability.

As persons frequently wish to know as nearly as may be, the cost of a student for one year at the Ohio University, the following estimates are here given:

LOWEST.		HIGHEST.	
Registration fee.....	\$ 15 0	Registration fee.....	\$ 15 00
Board in clubs.....	70 00	Board in private family....	120 00
Room.....	30 00	Room.....	30 00
Books.....	10 00	Books.....	15 00
	<hr/> \$125 00		<hr/> \$180 00

This estimate is for three terms or forty weeks, and includes all necessary expenses except washing, and a small fee for membership in the literary societies. The additional charges for students who take electives in Chemistry and for the special class in Electricity are elsewhere noted.

METHODS OF INSTRUCTION.

Instruction is given both by recitation and lecture. The constant aim in both is to awaken interest in study, to aid in the acquisition of knowledge, and to develop the powers of thought and communication.

Some subjects can be better treated in lectures than others. The knowledge the student has of a subject

is likewise a factor that is taken into account. The lecture method is generally better adapted to advanced students than to those who are still in the elements. After the elementary principles have been thoroughly mastered from the text-book, supplemented with such elucidations as seem to be called for, the student is generally prepared to profit by the lectures of the teacher, and to grasp the wider outlook that is the result of a knowledge of a subject rather than of the contents of any single book, or even of several books. In the observational studies the learner is, as far as possible, brought face to face with the objects themselves under consideration. The classes in Botany and Geology make excursions into the surrounding country for the purpose of collecting specimens and deriving scientific knowledge from original sources. The classes in Surveying and Mensuration have practice in the use of instruments in field work.

COURSES OF STUDY.

Such courses of study have been adopted as experience has proved to be best adapted to the purpose of liberal education. The classical course in fullness and matter, will compare favorably with that of the best institutions. The philosophical course is so arranged as to meet the wants of those who may prefer to study modern languages and English branches instead of Greek, for which French, German and English are substituted. In the scientific, prominence is given to Mathematics and the Physical Sciences.

The pedagogical course is intended to fit young people for the profession of teaching. A fuller state-

ment of its aims and methods will be found in an other part of this catalogue.

Those who are able to attend for a short time only, may take a select course, provided the studies they wish to pursue are such as they are qualified to enter upon with advantage. But no student will take a study to which he has not been assigned, or discontinue a study, without permission obtained from the Faculty.

ELECTIVES.

Each student in a regular course will be required to take at least fifteen class exercises per week, and no student will be permitted to take more than seventeen, except on permission of the Faculty. This permission will be given only on the written request of the student. Students in any one of the courses can select subjects in any one of the others below the class to which they are assigned, but not above, except on approval of the Faculty, who must be convinced that they have had sufficient preliminary training to pursue the elected study with advantage. As will be seen, about half the subjects after the freshman year are elective. But in addition to these a large number of others are offered for the benefit of those persons who wish to specialize still further along particular lines. It needs to be noted, however, that they are not offered unconditionally. Regard will be had to the time at the disposal of the teachers and to the number of students taking any particular elective, as well as to their preliminary training. In all cases where a student's knowledge of English is defective,

he must pursue this branch until his deficiencies are made up.

During the past few years a number of students, both undergraduate and post-graduate, have pursued advanced studies on special lines. With the recent increase in the number of the Faculty a large number of students can be accommodated and in a larger number of branches.

DEGREES.

The Bachelor's degree is conferred upon students who have completed any one of the four courses laid down in another part of this catalogue. The fee for diploma is five dollars.

The Master's degree will be conferred upon graduates of this or any other college who give evidence to the Faculty that they possess such literary and scientific attainment as will make them worthy recipients of it, and have, in addition, furnished a thesis after one year's work in residence. The fee for this degree is ten dollars.

No degree will be conferred until all dues are paid.

The degree of Doctor of Philosophy will be awarded only to students who have done post-graduate work in residence.

THE EMERSON PRIZE POEM FUND.

The late W. D. Emerson, of the class of '33, bequeathed to the Trustees of the University the sum of one thousand dollars, the interest on which is to be awarded every second year to the student or graduate of the institution who shall write the best original poem. As at present invested it yields an annual revenue of \$65. The first award was made in 1893 to

Miss Carrie Schwefel. The second award under the bequest was made in 1895. The prize was divided between Miss Esther Burns and Mr. John H. Atkinson. The judges were Mrs. Annie Fields, Mr. Maurice Thompson, and Mr. E. C. Stedman. The third, - to Miss Virginia M. Houston, the judges being Mrs. Margaret E. Sangster, Mr. W. D. Howells, and Mr. Clinton Scollard. The thanks of the University authorities are due and are herewith tendered to these distinguished writers for the care with which they examined the verses submitted to them as well as for the interest they took in the competition.

The fourth award was to Miss Houston, Miss Arwilla McLane and Mr. J. H. Atkinson.

LITERARY SOCIETIES.

There are two literary societies in the University, the Athenian and the Philomathean. They occupy well equipped halls in the former chapel building. The members have opportunity to exercise themselves in Declamation, Composition and Oratory, and to become familiar with the modes of conducting business in deliberative assemblies. Debating clubs are also formed from time to time by those students who desire to have more extended practice in the public discussion of important questions.

FACILITIES FOR PHYSICAL CULTURE.

Gymnasium—The University has a large gymnasium, which has already been equipped with considerable apparatus, and the supply is being increased from time to time. The dressing rooms are supplied with large lockers for clothing and with hot and cold shower baths. The use of the baths and the gymnasium is free to students. In the conduct of the

gymnasium the aim is not so much the development of a few gymnastic experts as the provision of wholesome exercise for the many. For this purpose regular instruction in light gymnastics is given for both ladies and gentlemen; on Tuesdays and Thursdays for the ladies, on Mondays and Fridays for the gentlemen. Thirty hours' credit toward graduation is given for one year's class work.

Athletic Field—The athletic field is a level tract of ten acres, owned by the University and situated a few minutes' walk southward from the campus. This field has been equipped especially for base-ball and foot-ball. The campus itself provides room only for tennis-courts, and for a small practice ground close by the gymnasium.

Supervision of Athletic Sports—The general supervision of athletic sports is vested in two boards; the Advisory Board and the Faculty Committee. The Advisory Board, elected by the Athletic Association, consists of five members; and represents the Faculty, the alumni and the students. This board has charge of all financial affairs of the Athletic Association, and the arrangement for intercollegiate games. The Faculty Committee, composed of three members, has charge of all matters involving the relation of athletic sports to the University; for example, the eligibility of players proposed for any University team, and the investigation of charges of misconduct on the part of players. The policy of the committee is to foster the spirit of honor and gentlemanliness in athletics, to suppress evil tendencies, and to see that play shall not encroach too much upon the claims of work.

Detailed Statement
OF THE
Departments of Instruction.

GREEK.

PROFESSOR SUPER.

ASSOCIATE PROFESSOR DUNKLE.

It is the aim of this department not only to teach students to read the authors commonly read in colleges, but also to make them acquainted as far as possible with the literature and life of the ancient Greeks. In teaching the language, especially that of Homer, constant attention is called to the words related to other languages, particularly Latin, German and English; and the laws of consonantal mutation are explained. Especial prominence is given, as the student progresses, to the following points: First, form; second, vocabulary; third, relation to cognate languages; fourth, literature and history. The ear is regarded as equally important with the eye in the interpretation of words. When possible, some entire work of an author is read, as it is thought a more lasting and more satisfactory impression will thus be made upon the mind of the student than by the use of selections only.

It is a well established principle in the study and teaching of the ancient languages that they should be made, as far as possible, the basis of a study of antique life. The Greek language embodies the experience of the most remarkable people of antiquity—a people whose achievements in literature, in the arts, and in government have been, and doubtless will continue to be, inexhaustible sources of profitable instruction. It is here claimed that a study of the Greek language, together with all that should properly be taken in connection therewith, will contribute the most important elements of a liberal education.

Before admission to the college class in this department, the student must be fairly familiar with the Greek Grammar and have read four books of the *Anabasis* and five books of Homer's *Iliad*, or an equivalent.

During the past year the students in college Greek read the selections from Herodotus, Thucydides, and Xenophon in Goodwin's Greek Reader; Wait's *Lysis* entire; and Kitchel's *Plato* entire. More important, however, than the amount of text perfunctorily read, is a knowledge of the Greek language and a true conception of the life of Greek antiquity.

Works of reference: Hadley's and Goodwin's Greek Grammars, Goodwin's Greek Moods and Tenses, Liddell & Scott's Greek Lexicon, Peck's Classical Dictionary, Autenrieth's Homeric Dictionary, Kiepert's Classical Atlas.

ELECTIVES: Students who wish to pursue the study of Greek beyond the regular course can be accommodated with three exercises per week for three terms, the subject to be studied, or the authors to be

read, to be selected by the professor. The following is the general program: As the Freshman year is devoted to a review of the Syntax, the Accidence of the Greek language in general, the student is prepared to take up the study of masterpieces, either in oratory, philosophy or poetry, with special reference to the characteristics of each. With these ends in view, one or more terms may be given to one or more of the Attic orators, to one longer and two shorter Platonic dialogues, or to some of the principal dramas. One elective term in Greek History is offered, and one in Comparative Philology.

LATIN.

PROFESSOR EVANS,

ASSISTED BY SEVERAL INSTRUCTORS.

For entrance into the Freshman class, students must complete the Preparatory Latin Course as laid down elsewhere in this catalogue or an equivalent.

During the first part of the Freshman year attention is directed to Latin Rhetoric as exemplified in the works of Cicero or Livy. During the latter part of the year, the class reads the Odes of Horace and studies Roman History. Throughout the whole year there are frequent exercises in sight reading and in turning into the original English renderings of Cæsar, Eutropius, and Nepos.

In the whole work the endeavor is to impress on the minds of the student that Latin is the language of a moral and practical people who left their mark on the world in law and government, and that "Rome

is the center of our studies and the goal of our thoughts; the point to which all paths lead, and from which all paths start again."

Hand-books: Allen and Greenough's or Gildersleeve and Lodge's or Harkness' Grammar; Allen's Roman History; Harper's Lexicon, Kiepert's wall maps of the Roman Empire and of various countries; Ginn & Co.'s Classical Atlas; Crutwell's Latin Literature; Gow's "Companion;" Smith's Dictionary of Classical Biography; and Smith and Seyffert's (Nettleship and Sandy's) Dictionaries are freely accessible to students for reference in their work.

ELECTIVES: Each year one of the following courses is offered to students who desire to continue the study of the Roman people beyond the course that is required.

1. *Latin:*

Terence, Cicero, Lucretius, Horace, Juvenal, Tacitus, Paternulus and Quintilian are studied according to the tendency or the choice of the class.

The students have access also to Simcox's Teuffel-Schwabe's (Warr's translation), and Browne's Histories of Latin Literature, and to Guhl and Koner's Life of the Greeks and Romans.

2. *Roman History:*

A whole year is given to the study of the military and political history of Rome, special attention being directed to the causes of the struggles between the Patricians and Plebeians, and between Rome and Carthage; and to those which made Rome the conqueror of the world, as well as to the causes which led to the decline of the Republic.

Books for study and reference: Epochs of Ancient History; Lanciani's Ancient Rome in the Light of Recent Excavations; The Great Captains—Hannibal—by Dodge; Duruy's and Mommsen's Histories of Rome; Long's Decline of the Roman Republic; and Labberton's Historical Atlas.

3. *The Roman Constitution and Outlines of Roman Law:*

This course is of interest to students who look forward to the study of law, as a study of Roman law helps one to get a clear idea of the fundamental conceptions of Jurisprudence. The study of the development of the Roman constitution and the laws will help to understand how all constitutions and laws grow. In the last two courses described, students are required to consult Roman authors in addition to the authors already mentioned.

When students desire it, classes are organized to study the Vulgate Version of the Scriptures, Latin Hymns of the church, the writings of the Latin writers of church history, and other works in Patristic Latin.

MATHEMATICS AND ASTRONOMY.

PROFESSOR HOOVER,

ASSISTED BY ONE OR MORE INSTRUCTORS.

The course in pure mathematics embraces ten terms, distributed as follows: Algebra, four terms; Geometry, two terms. Trigonometry and Surveying, two terms; Analytic Geometry, one term; Calculus, one term. Of these, four terms including Algebra to

Series and Plane Geometry, are required for admission into the Freshman class; the remaining six terms are included in the College Department, covering the Freshman and Sophomore years.

See also courses of study and electives.

In teaching the pure Mathematics, especial attention is directed to the value of the study as a means of training the logical faculties. Constant stress is laid upon the steps of reasoning which underlie the various processes; and it is insisted that the principal business of the college student of Mathematics is to apprehend these clearly.

Power to apply the principles is tested by a wide range of exercises drawn from various sources, and adapted to the capacity of the student.

A part of the Spring Term in the Freshman year is devoted to the subject of land surveying, and to other applications of Trigonometry. This work is important as giving good examples of the utility of mathematical science and its practical applications. The department is in possession of an excellent set of surveying instruments, including a transit, level, rod, and other necessary appurtenances. These are in frequent use by the students.

ELECTIVES: In this department the following electives are offered: Theory of Equations; Analytic Geometry of Three Dimensions; Differential Equations; Statics and Dynamics; Elliptic Functions; Spherical Harmonics; Quaternions; Determinants; Mathematical Optics; Least Squares; and Astronomy.

RHETORIC AND ENGLISH LITERATURE.

PROFESSOR CHUBB.

ASSOCIATE PROFESSOR WILSON.

The aim of the English Department is two-fold, to train the power of expressing thought, and to cultivate an appreciation of literature. In the classes in Rhetoric the main stress is placed upon the actual work in composition done by the student. In the study of Literature the endeavor is to quicken the artistic and æsthetic sense.

The Library is the laboratory of the English Department. In the study of an author different students are assigned different works for reading. Each student then reports, sometimes in an address, sometimes in an essay, upon the results of his reading.

When studying Literature emphasis will also be placed upon the practice of composition, and in the classes in Rhetoric much attention will be given to the study of Literature.

Præparatory to College English, the student must have a thorough knowledge of Grammar, and must have completed the following six terms' work or an equivalent.

First Term—Composition and Rhetoric

Second Term—American Literature--selections from Irving, Bryant, Whittier and Poe.

Third Term—American Literature continued—selections from Lowell, Longfellow, Hawthorne, Emerson and Holmes.

Fourth Term—English Literature, selections from Shakespeare, Milton, Burke Addison and Dryden.

Fifth Term—English Literature continued—selections

tions from Johnson, Wordsworth, Macaulay, George Eliot and Coleridge.

Sixth Term—Composition and Rhetoric completed.

THE AMOUNT OF COLLEGE ENGLISH REQUIRED FOR GRADUATION.

For the B. S. degree, 96 hours' credit.

For the A. B. degree or B. Ph. degree, 144 hours' credit.

For the B. Ped. degree, 196 hours' credit.

COLLEGE COURSES.

1. *Tennyson*—A study of the Idyls of the King, and some of the shorter poems. Three hours. (Required for all degrees.)

2. *Shakspeare*—Julius Cæsar, Macbeth, King Lear, Richard III. These plays will be studied in class. In addition four comedies will be assigned for cursory reading.

Four hours (required for all degrees.)

3. *College Rhetoric*—In this work the stress is placed upon paragraph-writing. Three hours (required for all degrees.)

4. *19th Century Prose Literature*—Ruskin, Carlyle and Arnold are studied in class. Four hours (required.)

5. *Browning*—Three hours (senior elective.)

6. *The English Bible*—This course is offered by several professors. It is open to all. One hour. Given each term.

WINTER TERM.

7. *Emerson and Lowell*—The poetry of Lowell and the prose of Emerson. Three hours (Freshman elective.)

8. *Shakspeare*—Hamlet, Othello, The Tempest, and As You Like It, and in addition four plays will be assigned for cursory reading. Four hours (Sophomore elective.)

9. *Public Speaking and Argumentation*—This course is to give a training in public speaking, special stress being placed upon argumentation. It is not intended to be a course in formal logic, but a study of the principles of argumentation as used in everyday life. Baker's Principles of Argumentation is the text used in connection with the study of specimens of argumentation. Open to all who have taken Course 3. Three hours.

10. *Criticism*—The Analytics of Literature. Three hours (Senior elective.)

SPRING TERM.

11. *Bryon, Keats and Shelley*—Three hours (Freshman elective.)

12. *Chaucer*—Four hours (Sophomore elective.)

13. *History of English Literature*—A text is studied and each member of the class makes a special study of a topic assigned. Four hours (Junior required.)

14. *Wordsworth*—Two hours (Senior elective.)

15. *Milton*—This course will alternate with 14.

UNITED STATES HISTORY AND POLITICAL ECONOMY.

PROFESSOR B. O. HIGLEY.

The importance of the study of United States History in preparing citizens to exercise the duties incumbent upon them as members of the body politic is growing more apparent every year. Therefore the

aim of the teaching in this department is so to read the history of the past as to throw light upon present civic and economic problems, and thus aid in their solution. The disciplinary value of the subjects included in this department is kept constantly in view. History is regarded as a record of the social, economic, moral and political life of the people. Environment, former ideas, and changing industrial conditions are all considered as important factors in determining the course of events. The work of our great leaders in thought and action is studied carefully in connection with the history of the people. Students are encouraged to investigate the civic and economic questions of the present day with minds as free as possible from partisan prejudice and preconceived opinions.

The standard books in Civics and Economics are studied, and the views therein expressed are freely discussed in the class-room. Government publications, magazine articles and other valuable material, are read for the purpose of obtaining all the light possible upon the subject under discussion as well as to broaden the mental vision of the student. The work for the year 1899 and 1900 was as follows:

PREPARATORY UNITED STATES HISTORY—REQUIRED.

First Year: Fall Term—History of the United States, 3 hours per week.

Winter Term—History of the United States, 4 hours per week.

Spring Term—Civil Government, 5 hours per week.

COLLEGIATE HISTORY—ELECTIVE.

Fall Term—The Colonial Period and the Formation of the Union, 4 hours.

Winter Term--The Period of Slavery Agitation, 4 hours.

Spring Term--The Civil War and the Reconstructed Nation, 4 hours.

The Epochs of American History will be used as guides in the study of the above courses.

SPECIAL ELECTIVES.

Fall Term--History and Study of United States Constitution, 3 hours; Territorial Expansion of the United States, 2 hours; Coinage Legislation since 1789 in the United States, 3 hours.

Winter Term--A Comparative Study of State Constitutions, 3 hours; Economic and Political Effects of Immigration, 2 hours; Important Tariff Laws of the United States, 2 hours.

Spring Term--The History of Political Parties in the United States, 3 hours; The Governments of Cities, 2 hours. Money and Banking, 3 hours.

In the Special Electives, the Madison Papers, The Federalist, Poore's Constitutions and Charters, American State Papers, Reports of Directors of the United States Mint, the Congressional Globe and Record will be used in connection with the standard histories. The volumes of Bancroft, Rhodes, Von Holst, Schouler, Pitkin, and the American Statesman series are constantly at hand for reference. Hamilton's, Jefferson's, Adams', Clay's and Calhoun's Works are always accessible and often used.

For further particulars, see "Course of Study."

POLITICAL ECONOMY.

Fall Term--The Elements of Political Economy, Part I, 3 hours.

Winter Term—The Elements of Political Economy, Part II, 3 hours.

The work outlined above is required in the Collegiate Department. Laughlin's book will probably be the text used. The fundamental principles of the subject will be studied in the first term, followed in the second term by their practical application to the questions of to-day.

ELECTIVE POLITICAL ECONOMY.

Fall Term—The History of Political Economy, 3 hours.

Winter Term—Economics, 3 hours.

Spring Term—Trusts and their Effects.

The works of Adam Smith, Ricardo, Malthus, John Stuart Mill, Roscher, and others will be examined in the first term. Hadley's Economics will serve as a text-book in the winter term. F. A. Walker's Political Economy and Marshall's Principles of Economics will be used as references. Some phase of the Labor Question will be studied in the third term, Co-operation and Profit Sharing will be the subject investigated in 1901 unless the class prefer to take up some other question. The department makes arrangements whenever possible for a special class in U. S. History during the Spring term.

PSYCHOLOGY AND PEDAGOGY.

PROFESSOR DOAN.

FALL TERM.

1. *James's Psychology*—(Briefer Course.) 3 hours per week.

In this course the text will be supplemented by lectures and special reports on collateral reading.

2. *Psychology*—(Elective) Three hours per week.

Library course in the origin of English Psychology. Special emphasis of the psychology of Locke and of Hume. The historical setting of English Psychology in its relation to Continental Philosophy of the same period will be considered incidentally. This course may be taken, if desired, as supplementary to Course I above.

3. *Psychology*—(Elective.) Three hours per week.

The Psychology of Ethics.

The psychological origin and meaning of such ethical ideas as "conduct," "motive," "duty," "sanction," "*summum bonum*," "free-will," etc.

This work does not presuppose a technical knowledge of psychology and is intended especially as a sophomore elective.

4. *Preparatory Pedagogy* -- (Required.) Gordy's "New Psychology."

5. *Pedagogy*—(Elective.) Five hours per week.

Special courses of lectures and library work will be provided for those students who have had the preparatory training and who desire more advanced preparation for teaching.

WINTER TERM.

1. *Psychology*—(Required.) Three hours per week. Continuation of Course I, (Fall Term.)

2. *Psychology*—(Elective.) Three hours per week. Animal Psychology.

A comparison of the psychic life of man with that of lower organisms. The evolutionary point of view

will be elaborately defined in its bearing upon psychological theory. This course presupposes a knowledge of psychology as given in Course I, Fall Term.

3. *Pedagogy*—(Required in the Pedagogical Course.) Four hours per week.

Davidson's "Education of the Greek People."

4. *Preparatory Pedagogy*—(Required.) Five hours per week.

Seeley's "History of Education."

5. *Pedagogy*—(Elective.)

Special courses will be provided as above. (Course 5, Fall Term.)

SPRING TERM.

1. *Psychology*—(Elective.) Three hours per week.

An examination of the fundamental concepts in Psychology; e. g. the meaning, reality, identity and unity of Mind; the relation between Mind and Body; a psychological account of Nature. Incidentally the instructor will by lecturing indicate some of the implications of psychology in the field of religious problems.

2. *Psychology*—(Elective.) Two hours per week.

Abnormal Psychology. This is intended as a seminary course in such pathological problems as Insanity, Criminology, Degeneracy, etc.

3. *Pedagogy*—(Required in the Pedagogical Course.) Four hours per week.

Advanced "History of Education."

This course will take Quick's "Educational Reformers" as a guide and will make a careful study of special systems.

4. *Pedagogy* — (Required in the Pedagogical Course.) Four hours per week.

Science of Education. Laurie's "Institutes of Education."

This course will lay special emphasis upon (1) the education of man as determined by his moral nature and (2) the education of man as determined by the psychological difference (in degree) between him and all lower organisms.

BIOLOGY AND GEOLOGY.

PROFESSOR MERCER.

MR. G. F. WHITE, PREPARATORY.

This department embraces all the subjects properly belonging to Biology, together with Inorganic and Organic Geology.

The work in Zoology begins with the second year of the preparatory course, and the subject being assigned to the fall term, abundant opportunity is offered for field work. In addition to the material gathered by the class, use is made of preserved marine types which are received from time to time for the purpose of dissection. Each student is required, also, to spend some time in the Zoological Museum, which contains many valuable specimens.

The student enters the laboratory at the very start, and such types are placed before him for examination and dissection as will lead him step by step, to correct habits of observation, by which he is enabled to comprehend the close relations of one form of life to another. As this work is in progress, the

subjects under examination are fully discussed, and, on the completion of each dissection, the student is examined upon the work done. Drawings are required of the different parts and organs, in all cases. After a few types have been studied in the laboratory the subject of classification receives careful attention.

An advanced course in Zoology is offered in the college proper, and a scholarship has been established which insures free tuition and laboratory privileges at the Marine Biological Laboratory, Cold Spring Harbor, Long Island, to the student in this department doing the highest grade of work. The importance of the advantages thus secured cannot be overestimated, as the student is given abundant opportunity to study marine life amidst its proper environments. He will, to this end, be expected to assist frequently in dredging, for which a naphtha launch is provided.

The course in Preparatory Physiology aims to give a good general knowledge of Anatomy and Hygiene, and the functions of the different organs. Occasional dissections are performed before the class, and some laboratory work is required of all. In the collegiate course this subject is studied by more advanced methods. Osteology receives close attention, and each student is expected to give some attention to dissection, besides making a practical study of a few histological structures. Physiological principles and theories are discussed according to the latest investigations; and, in this connection, experiments are performed in the laboratory. The department is supplied with a valuable skeleton and superb French anatomical models. (For more advanced work in Ana-

tomy and Physiology, see Preparatory Medical Course.)

Elementary Botany is required in all the Preparatory Courses except the classical. Work begins with an observational study of germinating plantlets, all students being required to sow the seeds of several representative plants and to make careful drawings of the different stages of growth. Leaves, roots and stems are studied from the objects as far as practicable, and careful dissections of certain typical flowers precede the regular work of Systematic Botany. As time permits, the student is given some insight into the microscopic structure of plants by practical work in the laboratory. An herbarium of not less than forty plants will be required of all, or an equivalent in laboratory work. In the collegiate course the student is set to work at once with the microscope, the object being to secure a knowledge from actual observation of the general anatomy and physiology of plants. This is followed by work upon the Cryptogams, and all will be encouraged to make some special investigations for themselves.

The University is thoroughly equipped for work in General Biology, a required subject in all the collegiate courses. A biological laboratory has recently been completed and fitted up with modern apparatus, including a steam sterilizer, fine optical appliances, dissecting instruments, water bath, paraffin bath, CO² freezer, Minot Microtome, etc. The student is given practical training in Microscopy, and is taught the process of staining and preparation of permanent mountings. It is the intention to give a thorough knowledge of the structure and mode of growth of ty-

pical plant and animal forms, and the laboratory work is accompanied with lectures, in which the composition of organisms, methods of reproduction, development and other biological subjects are discussed.

At an early stage of the work in Geology, such objective study of minerals is pursued as will enable the student to comprehend the composition of rocks, which is next taken up. To supplement the text, lectures may be given from time to time upon Dynamical, Structural and Paleontological Geology, and these subjects are further studied in the field. Work is also offered in Determinative Mineralogy. A large cabinet of minerals is open at all times to the student of Geology.

Works of reference: Parker & Haswell, Text-book of Zoology, Schafer, Text-book of Physiology, Marshall & Hurst, Practical Zoology, Stewart, Manual of Physiology, Bessey's Botany, Goodales Physiological Botany, Gray's Structural Botany, Wille's Diatomaceae of N. A., and Desmids of the U. S., Strasburger's Manual of Vegetable Histology, Goebel's Outlines of Classification and special Morphology, Vine's Physiology of Plants, DeBary's Comparative Anatomy of Phanerogams and Ferns, Huxley's and Martin's Biology, Sedgwick and Wilson's Biology, Packard's Zoology, Lang's Vergleichende Anatomie der Wirbellosen Thiere, Landois's Physiology, Stirling's Histology, Piersol's Histology, Shafer's Essentials of Histology, Carpenter's The Microscope, Frey's Microscopical Technology, LeConte's Elements of Geology, Dana's Manual, Dana's Mineralogy, Crosby's Mineralogy, Lyell's Principles

of Geology, Geikie's Text Book of Geology, and Government Reports.

COURSE I.

Fall Term—Physical Geography.

Winter Term—Elementary Physiology.

Spring Term—Elementary Botany.

This course is required of all preparatory students five hours for the entire year.

COURSE II.

Fall Term—Zoology.

Winter Term—Zoology.

Spring Term—Botany.

The work of the fall term is required of second year preparatory students five hours. Collegiate students may elect the winter and spring term's work.

Four hours are allowed for each of the winter and spring terms.

COURSE III.

Fall Term—Osteology.

Winter Term—Physiology and Anatomy.

Spring Term—Physiology and Anatomy.

The work of the fall term is elective for all college classes, the winter and spring terms are required of sophomores.

Course I and the fall term of Course II, or their equivalent are required for entrance to this course. Four hours are allowed in each course.

COURSE IV.

Fall Term—Histology.

Winter Term—Histology and Bacteriology.

Spring Term—Histology and Embryology.

This course is elective for Juniors. Four hours in the fall term, three hours each in Histology and Bacteriology in the winter term, and three hours each in Histology and Embryology in the spring term are allowed.

COURSE V.

Fall Term—{ Geology
Paleontology } or Botany.

Winter Term—Cytology.

Spring Term—Plant Histology.

The work of the fall term is required of Seniors. Courses I, II, III, and IV, are required for entrance to the winter and spring terms' work of this course. Four hours are allowed in each course.

COURSE VI.—ENTOMOLOGY.

This course is a four-hour elective course for all college classes. The course is given only during the summer term.

PREPATORY MEDICAL COURSE.

It is desirable in many cases that students looking forward to the medical profession should, after spending four years in collegiate work, be admitted to advanced standing in medical schools, whereby a years time may be gained. With this object in view, the department of Biology now offers such work as is, in conjunction with Physics and Chemistry, recognized by the best of these schools the full equivalent of a year's professional study. The department of Physics and Chemistry furnish abundant opportunities for the work required in that direction. The biological work is, from the very

outset, suited to the needs of the medical student. To this end it properly begins with General Biology, to be followed by a comparative study of animal forms and of phanerogamic and cryptogamic plants. The developments of some vertebrate is closely studied, and preparations of embryos are required of each student. Throughout the course close attention to laboratory work is insisted upon. Practical instruction is given in the preparation of microscopic objects, and the student is taught the technique of section cutting and mounting. A practical knowledge of Human Anatomy is obtained from the careful dissection of some mammal, the many resemblances to the anatomy of man, and the few differences, being continually referred to. Arrangements have been made whereby students of the University are allowed, under certain conditions, to attend post-mortem examinations and to assist in the work. The laboratory is provided with modern apparatus for accurate investigation of disease germs, and the student is therefore required to do practical work in the all-important subject of Bacteriology.

The graduate completing this course may receive credit for one year's work in the regular course of study at the Medical College of Ohio, Starling Medical College, Columbus, and other medical schools; and also will be admitted into the second year of the four-year's course of study in the Medical department of the University of Pennsylvania and Jefferson Medical College, upon presentation of a certificate signed by the professor in charge.

Among the works of reference to be found in the library may be mentioned Gray's Anatomy, Quain's

Anatomy, Holden's Anatomy, Landois and Sterling's Physiology, Hertwig-Mark's Text-book of Embryology, Lehrbuch der Vergleichenden, Entwicklungsgeschichte (Korschelt & Heider,) Minot's Human Embryology, Ziegler's General Pathology, Stoehr's Histology, Von Kohlden's Pathological Histology, Korschelt & Heider, Text-book of Embryology of the Invertebrates, Wilder and Gage's Anatomical Technology, Wiedersheim's Comparative Anatomy, Sternberg's Bacteriology and standard tests and guides in Histology. The following subjects are comprehended in this course: General Biology, Zoology, Mammalian Anatomy, Human Anatomy, Histology, Physiology, Structural and Systematic Botany, Vegetable Histology, Embryology and Bacteriology.

PHYSICS AND ELECTRICITY.

PROFESSOR ATKINSON.

ASSISTANTS, MR. F. H. SUPER, MR. G. E. McLAUGHLIN.

1. *Elementary Physics.* This work is required in the first and second terms of the third preparatory year in all the courses giving a degree. Recitations three times a week; laboratory work four hours a week. A small laboratory fee is charged. The laboratory course at least will be required of all high school graduates and others who have not had its equivalent.

2. *General Physics.* This course is required throughout the junior year of the Scientific course, and is open as an elective to students in other courses provided they have the preparation required of stu-

dents regularly in this course. In all cases a knowledge of Chemistry will be essential, but this may be acquired by entering at the same time the course in Chemistry marked in the sophomore year. No one will be permitted to enter this course until he has completed the course in Mathematics to and including Plane Trigonometry. The instruction consists of class work, with experimental demonstrations and individual laboratory work. As an outline of class work, Hastings and Beach will be used, though references to numerous works on Physics, particularly on special subjects in Physics, will be given as supplementary to the text. The laboratory portion of the work will be adapted to the requirements of junior students and will presuppose the work in Course I, or its equivalent. Recitations three times a week, laboratory four hours a week. Ames & Bliss, Nichols, Stewart and Gee and other authors are used as laboratory references.

3. *Physical Laboratory.* This will be a special elective course in heat and light, open to those who have already had 1 and 2.

4. *Physical Laboratory.* This is elective, and will be open on the same terms as 3. The course consists of exact measurements in electricity and magnetism. A very excellent special laboratory is now used for the work of this course, and the aim is continually to improve the facilities. Nichols, Stewart and Gee, Kempe, Carhart and Patterson, Stine and Ayrton will be used as references. Class work twice a week. Laboratory six hours a week during second term.

5. *Physical Laboratory.* This is an elective course given in the third term, consisting of a study of

dynamo electric machines to the end of determining and plotting their characteristics, efficiency, etc. Lectures twice a week. Laboratory six hours a week.

The fees for laboratory privileges are subject to adjustment.

ELECTRICAL ENGINEERING.

The rapid development of electricity for the purposes of light and power, and its general introduction into all sections of the country, have created a demand for men well qualified in this branch of engineering. The profession now offers excellent opportunities to young men, and the field is so broad that the chances for rapid promotion are very flattering to those properly qualified. The thoroughly educated man who combines practical experience with his theoretical knowledge of electricity and magnetism is in special demand; for many now engaged in this work are poorly fitted for its duties. The college does not lose sight of the fact that mind training is its chief business. Yet it is the guiding principle of this department that the education of the mind is none the less efficient for making use of the tools for this purpose which may at the same time be applied by the trained mind to earning a livelihood. We hold that instead of being opposed, these two features are correlative.

The college possesses an excellent incandescent lighting plant, used for lighting the buildings and campus, with the design of extending to the student practical training in the construction, operation and care of electrical and steam machinery. The plant is modern in all its parts, and meets our present re-

quirements for light and power quite satisfactorily. Very extensive additions to our electrical equipment have been made during the present year. Both direct and alternate currents are used. The switches and fittings on the board, wiring and general installation are all the work of students. Modifications and extensions from time to time give others excellent opportunities to obtain valuable practice.

The electrical profession requires a great deal of mechanical ability and training in the use of tools for both wood and metal. The department is provided with shops for both, a large forge and lathe-room having been recently provided in the basement of Ewing Hall as a further addition to our facilities in this direction. These shops are provided with wood and metal working lathes, and a complement of the necessary tools. Additions to the shop facilities are being made continually. As will appear from the course outlined below, while mastering the use of tools, the student is taught the construction of useful pieces of apparatus for laboratory purposes. The ability thus to construct apparatus and machinery, to preserve the proper relations of the several parts in fitting them together, and in overcoming the difficulties that may arise in embodying one's ideas, has a very great educational value aside from its practical aspect. Each student in his second year will design and construct an electric motor.

Below is indicated the course of study in this department. To this is added, however, seminary work with references to the leading treatises on electricity and engineering. Periodicals, such as the American Electrician, Electric World and Engineer, Power,

Scientific American and Supplement, Electricity, Street Railway Journal and Engineering Magazine, are kept on file easily accessible, and are included in the seminary references. For the practical plant work each division of those in this course is now on duty one night in each week. Each engineer is required to keep a record of steam pressure and of the current of each machine at regular intervals. There is co-operation also with the city arc-light plant, and an additional night in each week is spent in learning its care and operation under competent supervision. The student in all this work is taught to operate the plant with the object of attaining its highest efficiency, and to study the greatest economy in the use of all supplies for consumption.

Requirements. This work is elective as a whole, and those taking it must pursue the course regularly in its order unless a portion of it has been previously taken. Hereafter no one will be permitted to begin the theoretical portion of the work until he has passed the first and second terms of algebra as indicated in the second year of the preparatory course, and has completed the three terms of English marked in the preparatory course; this includes two terms of Literature and one of Rhetoric. However, those not prepared in these branches may be permitted to take up the practical portion of the course, including plant practice, shop-work, free-hand and mechanical drawing, while making up this work. The higher branches, Analytical Geometry, Calculus and Analytical Mechanics are strongly recommended to students in Electricity, though not absolutely essential to this course. Physics and Chemistry are required as indicated.

When the regular electrical course and the auxiliary studies are completed, a certificate will be issued showing the character of the work done. Also, where it is deserved, a recommendation will be issued showing the student's ability in theoretical and practical electricity. The course is subject to such changes from time to time as the development of the subject may dictate.

FIRST YEAR.

FIRST TERM.

Physics. Lectures and recitations three times a week. Laboratory four hours a week.

Electric Wiring. Lectures and recitations on the principles and methods of wiring for light and power; rules and regulations. Two hours a week.

Electric Lighting. General elementary theory; principles of construction and operation of dynamo-electric machines, systems of lighting, types of machines and practical management. Four hours a week.

Free-hand Drawing. Simple geometric solids, one and two views; outlines of simple geometric solids in perspective. Three hours a week.

Shop Work. Wood turning, metal-boring, filing and polishing. Four hours a week with no credit.

Plant Duty. Operation of college incandescent and city arc stations. One night a week each.

Mechanical Drawing. Simple geometric drawing for neatness and accuracy in the use of instruments; lettering; use of scales. Three hours a week.

Mathematics. Four hours a week.

SECOND TERM.

Physics. Lectures and recitations three times a week. Laboratory work four hours a week.

Steam. General theory of steam engines and boilers; theory and construction of details; dimensions for required power; indicators, theory and use; valve gears. Two hours a week.

Practical Electricity. Electrical and magnetic calculations. Four hours.

Shop Work. Metal turning, bolt cutting and tapping. Four hours a week with no credit.

Free-hand Drawing. Outlines and shaded studies of geometric solids, single and grouped; outline and shaded studies of vase forms. Three hours a week.

Plant Duty. Operation and care of college and city stations. One night a week each.

Mechanical Drawing. Descriptive Geometry; copying drawing. Three hours a week.

Mathematics. Four hours a week.

THIRD TERM.

Electric Lighting. Discussion of the various distributing systems and lamps. Calculations and practical details. Four hours a week.

Dynamos. Theory, calculation, various forms of winding. Details of construction. Four hours a week.

Steam. Same as second term. Two hours a week.

Shop Work. Simple pieces of apparatus, binding posts, switches, etc. Four hours a week with no credit.

Plant Duty. Care and operation of college and city stations. One night a week each.

Free-hand Drawing. Three hours a week.

Mechanical Drawing. Copy work from engine and machine drawings. Three hours a week.

Mathematics. Four hours a week.

SECOND YEAR.

FIRST TERM.

Electricity. Lectures with references and recitations upon electrical engineering. Four hours a week.

Electric Railway (or equivalent.) Recitations upon general principles and practical aspects; plans and specifications. Four hours a week.

Shop Work. Construction of simple laboratory apparatus. Four hours a week, no credit.

Mechanical Drawing. Working drawings and plans of machinery from actual parts. Three hours a week.

Plant Duty. Care and partial supervision of college and city stations; trimming and testing lamps. One night a week each.

Seminary. Investigation of assigned topics; written reports. One hour each week.

Mathematics or Chemistry, Four hours a week.

SECOND TERM.

Electricity. Alternating and polyphase currents. Four hours a week.

Electricity. Absolute measurements in electricity and magnetism. Class work two times a week. Laboratory six hours a week.

Shop Work. Miscellaneous construction work; design and construction of small motors and dynamos. Four hours a week, no credit.

Mechanical Drawing. Same as preceding term. Three hours a week.

Plant Duty. Same as preceding term.

Seminary. Same as previous term. One hour a week.

Mathematics or Chemistry. Four hours a week.

THIRD TERM.

Electricity. Testing dynamos for characteristics, efficiency and regulation. Lectures two times a week. Laboratory six hours a week.

Electricity. Electrical transmission of power. Four hours a week.

Lamp Testing. Testing arc and incandescent lamps for candle power and efficiency. Two hours.

Mechanical Drawing. Same as last term. Three hours a week.

Plant Duty. Same as preceding terms.

Seminary. Same as preceding term. One hour per week.

Mathematics or individual investigation. Four hours a week.

For the present there will be no charge for electrical laboratory, but students will be held responsible for all breakage and damage. The only charge for students in electrical engineering will be five dollars a term, the regular contingent fee. Those who are not electrical students, but who wish to take mechanical drawing, may do so on the payment of one dollar per term in addition to the contingent fee.

Any one wishing to spend less than two years will be required to pursue the course regularly so far as he goes. New light is given and new opportunities appear very often after one year spent in the pursuit

of this work. Inquiries concerning the course will receive prompt attention.

CHEMISTRY.

PROFESSOR BENTLEY.

The aim of the Chemical Department is two-fold. It offers to the general student the opportunity of becoming acquainted with the general principles of this science and gives him practice in some of the methods used in the chemical laboratory. To a smaller number of students the department offers superior facilities for more advanced work both theoretical and practical, organic as well as inorganic. In the room recently equipped for advanced work every convenience is supplied. The department is also accumulating a library of reference books which will meet the requirements of the students who make chemistry their special field for work.

COURSES.

1. *General Descriptive Chemistry.* This course consists of three lectures and four hours laboratory work per week during the Fall and Winter terms. The lectures will be illustrated with experiments and stereopticon views on applied chemistry. In the laboratory the student will study the preparation, properties and reactions of the various elements and compounds considered. This course requires no special preparation and it or an equivalent must precede all other courses in chemistry. It is Sophomore required.

Newth's Inorganic Chemistry is recommended as a reference book for students in this course.

2. *Qualitative Analysis.* A laboratory course

of three hours per week for two terms. The first term work may be done at the same time with the second term of Course 1, or by doubling the working time the whole work may be done in one term. The student will become familiar with the tests applied for the identification of bases and acids in insoluble as well as in soluble substances.

3. *Organic Chemistry.* A short course in this subject will be offered for the Fall term and will consist of three recitations per week. The course will give a general knowledge of the subject. Laboratory work in organic preparations may be arranged for if desired.

4. *Theoretical Chemistry.* This course will consist of three recitations per week during the Winter term. It will supplement the theoretical work done in Course 1 and will give the student some acquaintance with the more recent developments in theoretical chemistry. Course 4 should be preceded by Courses 1, 2 and 3.

5. *Electro-Chemistry.* Three recitations per week Spring term. This course is a continuation of Course 4 and should be preceded by it. Le Blanc's *Electro-Chemistry* will be used as a text-book.

6. *Quantitative Analysis.* A laboratory course the equivalent of three hours per week for three terms. The course will give practice in all the more general methods of quantitative analysis, both gravimetric and volumetric. It should be preceded by Course 2 but may be taken in conjunction with it.

7. *Advanced Practical Chemistry.* A laboratory course equivalent to three hours per week to be devoted to such work as the student may select. This course follows Course 6.

8. *Technical Chemistry.* This course will consist of lectures, recitations and reports by the students. It will be shaped to suit the wishes of the class and will secure a credit of three hours per week. This course will be open only to those who have taken Courses 1-6 or their equivalent.

DEPARTMENT OF PHILOSOPHY.

PROF. TAUSCH.

Referring the student to the February issue of the Bulletin where he will find on page 98 Philosophy defined and its place in the curriculum of higher education determined, we may say in review that Deductive and Inductive Logic, Theory of Knowledge, and Immanent Metaphysics or better, the systematization of all knowledge, constitutes the business proper of the philosopher; and if the philosopher's task is to give a general view of life, only such persons may justly claim a finished higher education who, apart from special professional attainments, have been fitted by their comprehensive philosophical training to understand the general affairs of man and take an intelligent part in their management.

The department intends to provide the student desirous of a well rounded education with an introduction into the problems involved by offering various courses pertaining either to the three auxiliary sciences mentioned above or to Metaphysics itself. Therefore special studies in the history of philosophical thought will be taken up. Among the topics to be discussed we may mention the fundamental concepts of modern physics, utilitarianism science and religion and socialism.

But whatever course the student may select along these lines, the study will be based upon philological and philosophical interpretation and directed so as to result in a mental discipline and general insight which would enable the student to arrange with advancing years his experiences into views of his own and to meet the exigencies of his life in such a way as to be in harmony with the universe and conducive to his own happiness.

Fall Term.

1. David Hume, Enquiry concerning human understanding. Elective, four hours.
2. Religious thought in the 19th century, Elective, two hours.

Winter Term.

1. Plato's Republic. Elective, four hours.
2. Sociology. Elective, two hours.

Spring Term.

1. Physiological Aesthetics. Elective, four hours.
2. History of Arts. Elective, two hours.

MODERN LANGUAGES.

KATE CRANZ, ASSOCIATE PROFESSOR.

GERMAN.

The entire course offered in German covers a period of four years. The first two years are required of all students in the Philosophical and Scientific Courses. Two courses are offered as electives—a year of critical reading with conversation, and a year of Composition

with Conversation. Only one course is offered each year, the courses alternating. The course in composition and conversation will be offered in 1900-1901.

PREPARATORY GERMAN.

First Term—Grammar with Written Exercises, five hours per week.

Second Term—Grammar two hours per week; Translation, three hours per week.

Third Term—Translation, five hours per week.

COLLEGIATE GERMAN.

First Term—Narrative Prose, four hours per week.

Second Term—Narrative Prose, four hours per week.

Third Term—Selections from Lessing, four hours per week.

ELECTIVE GERMAN.

1. A study of Scheffel's Ekkehard and Goethe's Faust, two hours per week throughout the year; Conversation, two hours per week throughout the year.

2. Composition, two hours per week throughout the year; Conversation, two hours per week throughout the year.

The course in Conversation is open to all students who have finished the first two terms.

FRENCH.

The course in French is required of all students in the Philosophical and Scientific Courses.

First Term—Grammar and Written Exercises, four hours per week.

Second Term—Narrative Prose, four hours per week.

Third Term—Narrative Prose, four hours per week.

Electives will be offered in this department later.

VOCAL AND INSTRUMENTAL MUSIC.

JAMES PRYOR MCVEY AND NELLIE H. VAN VORHES,
INSTRUCTORS.

The Board of Trustees has recently added a course in music without determining precisely what its relation to the other departments should be. This course for the present is as follows:

- a.* Chorus and Sight Reading.
- b.* Voice Culture.
- c.* Piano and Theory.

Under the first, the work is distributed into elementary instruction on the lines and spaces as representing sounds; notes as representing quality; the clefs, rythm, the diatonic major scale. Further lessons in dictation in connection with blackboard exercises for the purpose of familiarizing the student with the simples succession of tone and rhythmic form. Next the interval system. Here progressive exercises are used in order to familiarize the pupil with the various intervals and particular attention is given to correct intonation and purity of tone. Finally, the theoretical and practical development of the major and minor scales, followed by exercises is the use of both modes.

With students of the second grade the matter in

the first is recapitulated. This is followed by self-eggio exercises in two parts on the compositions of ancient and modern masters. Pupils of the third grade study three and four part compositions in which special stress is laid on the acquisition of a correct pronunciation of both vowel and consonant sounds.

Under the head of Voice Culture, instruction is given upon the correct position while singing; the position of the mouth, tongue and larynx; the manner of attacking and leaving a note; the manner of forming pure notes in the different registers, and of connecting tones without slurring. Next in order are respiratory exercises in which the pupil is taught how to acquire a long, noiseless and easy breathing by slow inhalations and exhalations. These are followed by exercises in scales, runs, trills and other embellishments. The laws of expression as set forth in the words of old and modern masters are also studied. Last in order is the expression of vowel and consonant sounds. The pupil is taught how to pronounce distinctly without injuring the purity of the vocal tones.

PIANO.

The advance of the pupil on this instrument beginning with the simplest elements and passing to the most difficult selections is so gradual that it is scarcely possible to indicate it by grades. He is, however, always provided with exercises suited to his advancement and to the skill already attained. In this way his progress is continued and uninterrupted as long as he continues to study. It is, therefore, not deemed necessary to indicate here specifically the exercises that will be from time to time put into his hands.

It can not be too strongly urged upon those who desire to become proficient that they must act upon the motto, Practice, Practice, Practice.

All the pupils in this department are required to take the complete course in Harmony contained in classes A and B of Broekhoven's System of Harmony. The requirement for the pupils in vocal music is limited to Class A. Students' recitals will be given in the college chapel each term, in which all who are qualified will be expected to take part. The value of such practice need not be dwelt on here.

With a view to encouraging the systematic study of music it may be taken as an elective on the same conditions as those provided for other electives. Music, if properly studied, has an educational value nearly or quite equal to that of any other branch. But it is of far less importance to be a fine player than an intelligent judge of good music. Those who wish to become performers will be accommodated as far as possible, but the chief attention of the teachers will be directed towards the attainment of genuine musical culture.

Students who have had three years of lessons on the piano, two per week, and one of theory, or an equivalent, may be excused from all language study in the Preparatory Department. Musical theory shall constitute one study and may be pursued as long as the student desires to do so. Those who take two lessons per week in instrumental music or vocal training may receive credit for 75 hours' elective work per year. A good knowledge of English will be insisted on. Those who attain a sufficient degree of profici-

ency in music may receive a certificate in addition to their diploma.

The following books are recommended for study, or at least for careful perusal:

Among the text-books used will be Behnke's Mechanism of the Human Voice; Behnke & Browne's Voice, Speech and Song, and The Child's Voice; Elson's German Song and Song Writers; Fay's Music Study in German; Fetis's Music Explained to the World; Goodrich's Music as a Language, and Complete Musical Analysis; Hand's Aesthetics of Musical Art; Upton's Standard Operas and Oratorios; Biographies of the Great Musicians by Nohl and by Huffer; Ritter's History of Music; Musical Acoustics by Broadhouse; Grove's Dictionary of Music and Musicians, etc.

A comparison of the above course with any other in the country will show that it is surpassed in excellence and thoroughness by none and equaled by few. Those who complete it will not only have an intelligent comprehension of music both in itself and its relation to the other arts of civilization, but will possess an excellent education in addition. A musical literary club meets once in two weeks for the study of the literature and history of music.

DRAWING AND PAINTING.

MARIE LOUISE STAHL, INSTRUCTOR.

The proper object of the study of drawing is so often misunderstood that many regard it as entirely superfluous, whereas there is nothing that will lead

to a broader culture and to a more thorough training of the faculties—a training so important in any occupation. Cultivating one's powers of observation, thinking and acquiring skill in the use of charcoal or pencil—the three things primarily obtained by the study of drawing, are of practical importance to every one.

Perspective is taught from such objects as chairs, tables, interiors, etc., and varies the work from still life and casts with which the studio is well equipped. Any individuality in the student is encouraged, and no fixed methods insisted upon. In painting, instruction is given in oils, water colors, pastels and china for which a kiln has been provided. Some knowledge of form and proportion is necessary through the study of charcoal drawing before the student can begin to paint. Instruction in out-of-door work will be given to those desiring it who are sufficiently advanced.

Several of the best art periodicals are kept in the studio, to which the students have access. Talks on art subjects will be given and several large collections of reproductions of master pieces will be exhibited during the year.

COMMERCIAL DEPARTMENT.

C. M. COPELAND, PRINCIPAL.

This work is arranged to meet the large demand on the part of regular as well as special students for instruction in the commercial studies. It is recognized that a course in this department is not all of an

education, but a very useful and important part. The regular student has an opportunity during his college course to obtain a knowledge of business rules and customs which will be invaluable to him when he afterwards goes into business or enters a profession. The special student, who takes only this work, has the same advantages of library, reading room, literary societies, gymnasium, college associations, etc., as regular students and may enter any of the regular preparatory or college classes without extra charge. Moreover, the special student finds contact with a large student body in the general college work helpful and inspiring.

Commodious rooms in the new building have been assigned to this department, and they have been well equipped for the work. The bank, and commission, wholesale, and railroad offices in the office department are models in arrangement, fixtures and supplies. Here students receive the training that comes from filling the principal as well as the subordinate positions in such offices. In the bank they pass from the position of collection clerk to that of book-keeper, teller and cashier. In the wholesale office they are shipping clerk, book-keeper and manager; in the railroad office, agent and clerk; in the commission office, receiving clerk, shipping clerk, book-keeper and manager.

All the work in this department is elective for which college credit is allowed on any of the regular courses. Diplomas will be granted only to students who have had the three terms of English, two of U. S. History, and one of Civics required in the first year

preparatory or their equivalent. This work can be taken in connection with the courses in Business and Stenography. Those not wishing a diploma will be allowed to take up the commercial work, without these extra studies, provided they can give evidence that they are competent to do so. Only excellent students should take the courses in Business and Stenography at the same time, as experience teaches that no others can do the required work well.

COURSE IN BUSINESS.

1. THEORY OF ACCOUNTS. Five hours per week for two terms. Beginning classes are formed each term. Ample practice is given in the systems of accounts used in the various kinds of business from retailing to modern banking. It is the aim of this course to give the student a wide acquaintance with business methods and to secure proficiency in opening and closing book, journalizing, rendering statements, tracing errors, analyzing accounts, and drawing business papers. This course prepares teachers to meet the requirements in high schools.

2. ACTUAL BUSINESS AND BANKING. Five hours per week for one term and open to students who have taken Theory of Accounts. This work is on the inter-collegiate communication plan, and the transactions are with students of other colleges. The business correspondence growing out of purchases, sales, remittances, collections, making settlements and adjusting accounts, carried on with a number of advanced students in other cities, each one anxious to maintain a good record for his school, must certainly develop a high grade of efficiency in all the student's work.

3. COMMERCIAL LAW. Three hours per week in the winter term. This work deals in a general way with the subjects of contracts, agency, partnership, corporations, sales, and negotiable paper, and is intended to give students a practical acquaintance with the fundamental principles of each.

4. COMMERCIAL CORRESPONDENCE AND BUSINESS FORMS. One hour per week in the winter term.

5. BILLS AND NOTES. (Not required.) Two hours per week in the spring term.

STENOGRAPHY AND TYPEWRITING.

MABEL K. BROWN, INSTRUCTOR.

It is the aim of this department to teach the subject thoroughly rather than to turn out so-called stenographers in a short time. Special attention is given to the elementary principles of the art, as it is believed this method leads to the greatest saving of time in the end. The time spent in completing the course depends upon the ability and the industry of the student. Many find it to their advantage to study three terms, or ten months, but the course can be finished in less time.

While the demand for stenographers is increasing, the standard of proficiency is steadily rising. In order to obtain and hold a good position, the stenographer must be able not only to take notes with rapidity, but to transcribe them intelligently. No person who is deficient in English can hope to be able to do this, no matter how great his skill as a stenographer. The courses in English in this institution are open to all students of stenography, without extra

charge, and those who need instruction in these branches are urged to avail themselves of the opportunity offered.

In typewriting the student's first efforts are directed to acquiring a correct method of fingering. This is followed by practice leading to a high speed. Business and legal forms are studied, and as soon as practicable the student is required to transcribe his notes taken from dictation. Punctuation and the correct use of capitals are taught throughout the course.

PENMANSHIP.

N. R. CUNIOUS, INSTRUCTOR.

It is well known that good writing is a desirable accomplishment for any one and indispensable for those who would succeed as book-keepers and stenographers. Accordingly the classes in Penmanship are open to all students, and those in the commercial department who do not write a good hand are required to take regular instruction. To develop plain writing with an easy, rapid movement is the constant aim in all exercises. Ornamental work will be given to advanced students who desire it.

EXPENSE.

In addition to the contingent fee of \$5.00 there is a special fee of \$5.00 for Business, \$5.00 for Stenography and Typewriting, and \$1.50 for Penmanship, per term. The books for the entire course in Stenography do not cost more than \$2.00 and in the Business course not more than \$10.00. Those who complete either course as outlined above will be granted a certificate if they desire it for which a fee of \$3.00 or \$5.00 is charged.

Courses of Study

IN

Collegiate Department.

In the following scheme, the figures in parentheses indicate the number of exercises per week. It is believed that the four courses given below are equal in educational value, and all require 2500 hours of class-room work for their completion. The required work in each course is about 1500 hours. Each student is expected to select the remaining 1000 hours from the electives offered in the various departments.

REQUIRED SUBJECTS FOR THE DEGREE OF BACHELOR OF ARTS.

FRESHMAN YEAR.

Fall Term—Greek (4); Latin (4); Solid Geometry (4); Political Economy (2).

Winter Term—Greek (4); Latin (4); Algebra (4); Political Economy (2).

Spring Term—Greek (4); Latin (4); Plane Trigonometry and Surveying (4).

SOPHOMORE YEAR.

Fall Term—Greek or Latin (4); Chemistry (4); European History (3).

Winter Term—Greek or Latin (4); Physiology and Anatomy (4); Chemistry (4).

Spring Term—Greek or Latin (4); Physiology and Anatomy (4); European History (3).

JUNIOR YEAR.

Fall Term—English Literature (4); Psychology (3).

Winter Term—Psychology (3).

Spring Term—English Literature (4).

SENIOR YEAR.

Fall Term—Advanced Botany or Geology (4).

Winter Term—Logic (4); Astronomy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF BACHELOR OF PHILOSOPHY.

FRESHMAN YEAR.

Fall Term—Latin (4); German (4); Solid Geometry (4); Political Economy (2).

Winter Term—Latin (4); German (4); Algebra (4); Political Economy (2).

Spring Term—Latin (4); German (4); Plane Trigonometry and Surveying (4).

SOPHOMORE YEAR.

Fall Term—French (4); Chemistry (4) European History (3).

Winter Term—French (4); Chemistry (4); Physiology (4).

Spring Term—French (4); Anatomy and Physiology (4); European History (3).

JUNIOR YEAR.

Fall Term—English Literature (4); Psychology

(3).

Winter Term—Psychology (3).

Spring Term—English Literature (4).

SENIOR YEAR.

Fall Term—Advanced Botany or Geology (4).

Winter Term—Logic (4); Astronomy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF
BACHELOR OF SCIENCE.

FRESHMAN YEAR.

Fall Term—Latin (4); German (4); Solid Geometry (4); Political Economy (2).

Winter Term—German (4); Latin (4); Algebra (4); Political Economy (2).

Spring Term—German (4); Latin (4); Plane Trigonometry and Surveying (4).

SOPHOMORE YEAR.

Fall Term—French (4); Chemistry (4); Trigonometry (4); European History (3).

Winter Term—French (4); Analytical Geometry (4); Chemistry (4).

Spring Term—French (4); Anatomy and Physiology (4); European History (3).

JUNIOR YEAR.

Fall Term—Physics or Mechanics (4); English Literature (4).

Winter Term—Physics (4); Psychology (3).

Spring Term—Physics (4); Psychology (3).

SENIOR YEAR.

Fall Term—Advanced Botany or Geology (4).

Winter Term—Logic (4); Astronomy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF
BACHELOR OF PEDAGOGY.

FRESHMAN YEAR.

Fall Term—U. S. History (4); Solid Geometry (4); Political Economy (2); A Foreign Language (4).

Winter Term—U. S. History (4); Algebra (4); A Foreign Language (4); Political Economy (2).

Spring Term—U. S. History (4); Plane Trigonometry and Surveying (4); A Foreign Language (4).

SOPHOMORE YEAR.

Fall Term—A Foreign Language (4); European History (3).

Winter Term—A Foreign Language (4); Physiology and Anatomy (4).

Spring Term—A Foreign Language (4); Physiology and Anatomy (4); European History (3).

JUNIOR YEAR.

Fall Term—A Foreign Language (4); English Literature (4); Psychology (3).

Winter Term—A Foreign Language (4); History of Education (3); Elocution (3); Psychology (3).

Spring Term—A Foreign Language (4); English Literature (4); History of Education (4); Elocution (3).

SENIOR YEAR.

Fall Term—Psychology (3); English Literature (4).

Winter Term—Logic (4); Astronomy (4).

Spring Term—Science of Education (4).

PREPARATORY DEPARTMENT.

ELI DUNKLE, PRINCIPAL.

This department is designed to prepare students for the regular courses of the college. Students are also received who wish to pursue elementary studies, even though they may have no intention of entering one of the higher courses.

Candidates for admission to this department must furnish satisfactory evidence of good character, and must pass examination in Geography, Arithmetic, English Grammar, Elementary U. S. History, and all studies of the courses lower than those which they wish to pursue. Persons who have certificates from county examiners in Ohio will be admitted without examination in the subjects named above. But students who expect to graduate from the Normal department must give evidence that they are thoroughly familiar with the common school branches.

There are four preparatory courses, Classical, Philosophical, Scientific and Pedagogical, each requiring three years for completion, and each leading to a corresponding course in the collegiate department. For the benefit of teachers and others who wish a more thorough preparation for their work, classes in Arithmetic, Elementary Algebra and English Grammar will be organized at the beginning of each term.

SUMMER SCHOOL.

It is customary for members of the Faculty to conduct a summer term. This term usually begins on the first Monday after commencement. In 1901

the summer term extends from June 24 to August 2. A circular setting forth the various courses to be given will be sent to any one who will apply to Professor Copeland.

THE COURSES OF STUDY IN DETAIL.

LATIN.

FIRST TERM. Collar and Daniell's Beginner's Latin Book

SECOND AND THIRD TERMS. Rolfe & Dennison's Junior Latin Book. Especial stress is laid on inflections and composition.

SECOND YEAR. Cicero's Orations. The orations usually read are the four against Catiline, Pro Archia, Pro Marcello, and Pro Ligario. A careful study of forms and syntax is an important part of this year's work.

THIRD YEAR. Vergil's Aeneid, Books I-VI. Grammar reviews, scansion and mythology. Collar's Latin Prose Composition.

GREEK.

FIRST AND SECOND TERMS. White's Beginner's Greek Book, with particular reference to inflections and sentence writing.

THIRD TERM. Xenophon's Anabasis, Grammatical reviews and translation into Greek of easy prose.

FOURTH TERM. Anabasis continued through the fourth book. Jones' Greek Prose Composition.

FIFTH AND SIXTH TERMS. Homer's Iliad Books I-V, omitting the Catalogue of Ships in Book II.

Jones Greek Prose. In this connection considerable time is given to the study of the Epic dialect.

ENGLISH.

FIRST TERM. Herrick and Damon's Composition and Rhetoric to Part III.

SECOND TERM. American Literature—Selections from Irving, Bryant, Whittier and Poe.

THIRD TERM. American Literature continued—Selections from Lowell, Longfellow, Emerson, Hawthorne and Holmes.

FOURTH TERM. English Literature—Selections from Shakespeare, Milton, Burke, Addison and Dryden.

FIFTH TERM. English Literature continued—Selections from Johnson, Wordsworth, Macaulay, George Eliot and Coleridge.

SIXTH TERM. Herrick and Damon's Composition and Rhetoric completed.

GERMAN.

FIRST TERM. Cook's Otto's German Grammar, and Written Exercises.

SECOND TERM. Cook's Otto, Written Exercises, and translations of easy narrative prose.

THIRD TERM. Translation of easy narrative prose.

MATHEMATICS.

FIRST TERM. Milne's Essentials of Algebra, entire text-book.

SECOND TERM. Fisher & Schwatt's Secondary Algebra.

THIRD TERM. Fisher & Schwatt's Secondary Algebra.

FOURTH TERM. Chauvenet's Plane Geometry, at least four books.

PHYSICS.

Two terms, 5 hours per week. Recitations three times a week. Laboratory work 4 to 6 hours per week, 3 hours in the laboratory being equivalent to one recitation.

Carhart & Chute's Physics will be used as a guide for the class work. Full notes are taken in the laboratory, which are criticized, corrected and copied into a permanent book. The object is to teach laboratory methods of work and give opportunity to the student to acquire more or less skill in handling apparatus, while the recitation periods are devoted to the acquisition of the elementary principles of the subject.

PHYSICAL GEOGRAPHY.

This subject is required in all courses. The Eclectic Physical Geography is used as a text-book.

ZOOLOGY.

Considerable field work is done, and, in addition, preserved marine types are made use of for dissection. Students are expected to spend some time in the zoological museum. Dodge's Elementary Biology is used as a laboratory guide. Constant reference is made to standard works on the subject.

PHYSIOLOGY.

The text-book is Martin's Human Body, Briefer

Course. The aim is to give a good general knowledge of Anatomy and Hygiene and of the functions of the different organs of the body. More or less laboratory work is done.

BOTANY.

Field and laboratory work are a leading feature in this course. Each student will prepare a herbarium of not less than forty plants. Bergen's Foundations of Botany is the text book.

U. S. HISTORY.

Two Terms: The first of three hours per week, and the second of four hours per week. Text-book, either The Student's American History by Montgomery, or Channing's Student's History of the United States.

CIVICS.

The fundamental principles of the subject are carefully explained, while at the same time the practical operation of the different local and state systems are compared. Especial attention is given to the government of Ohio. The growth of our national system is thoroughly investigated.

EUROPEAN HISTORY.

This subject is pursued three terms in the Second Preparatory Year.

FIRST TERM. Botsford's History of Greece.

SECOND TERM. Allen's Short History of the Roman People.

THIRD TERM. Montgomery's Leading Facts of English History.

The aim is to give the student a general acquaintance with the leading persons, and the institutions, political and religious, with the literary and artistic movements; in general with the progress of civilization in its broader aspects. The method employed will be the text-book, references to more comprehensive work, essay writing, map drawing, and lectures by the teacher.

PEDAGOGY.

FIRST TERM. Gordy's Psychology.

SECOND TERM. Quick's Educational Reformers.

THIRD TERM. Fitch's Lectures on Teaching.

DRAWING.

Required in all four courses. Two hours in the studio are considered equivalent to one recitation.

ELOCUTION.

Required work in all courses.

FIRST TERM. Physical culture, development of the voice, inflection, phrasing and expressive reading, using Curry's Classic Selections as a text-book.

SECOND TERM. Development of the voice, articulation and pronunciation, with use of the same text-book.

Conspectus of Preparatory Courses.

FIRST YEAR—First Term.			
<i>Classical.</i>	<i>Philosophical.</i>	<i>Scientific.</i>	<i>Pedagogical.</i>
Beginning Latin.....5	Beginning Latin.....5	Beginning Latin.....5	Beginning Latin.....5
Rhetoric.....5	Rhetoric.....5	Rhetoric.....5	Rhetoric.....5
Physical Geography.....5	Physical Geography.....5	Physical Geography.....5	Physical Geography.....5
Drawing.....1	Drawing.....1	Drawing.....3	Drawing.....1
U. S. History.....3	U. S. History.....3	U. S. History.....1	U. S. History.....3
Second Term.			
Latin—Rolfé and Den- nison.....5	Latin—Rolfé and Den- nison.....5	Latin—Rolfé and Den- nison.....5	Latin—Rolfé and Den- nison.....5
English Literature.....5	English Literature.....5	English Literature.....5	English Literature.....5
Drawing.....2	Drawing.....2	Drawing.....2	Drawing.....2
Elocution.....3	Elocution.....3	Elocution.....3	Elocution.....3
U. S. History.....4	U. S. History.....4	U. S. History.....4	U. S. History.....4
Third Term.			
Latin—Rolfé and Den- nison.....5	Latin—Rolfé and Den- nison.....5	Latin—Rolfé and Den- nison.....5	Latin—Rolfé and Den- nison.....5
English Literature.....5	English Literature.....5	English Literature.....5	English Literature.....5
Elocution.....3	Elocution.....3	Elocution.....5	Elocution.....3
Drawing.....2	Drawing.....2	Drawing.....2	Drawing.....2
Civil Government.....5	Civil Government.....5	Civil Government.....5	Civil Government.....5
SECOND YEAR—First Term			
Cicero's Orations.....5	Cicero's Orations.....5	Cicero's Orations.....5	Cicero's Orations.....5
Beginning Greek.....5	History of Greece.....5	History of Greece.....5	History of Greece.....5
History of Greece.....5	Zoology.....5	Zoology.....5	Zoology.....5
Algebra.....5	Algebra.....5	Algebra.....5	Algebra.....5

Second Term.

Cicero's Orations.....	.5	Cicero's Orations.....	.5	Cicero's Orations.....	.5
Greek—Second Term.....	.5	History of Rome.....	.5	History of Rome.....	.5
History of Rome.....	.5	Physiology.....	.5	Physiology.....	.5
Algebra.....	.5	Algebra.....	.5	Algebra.....	.5

Third Term

Cicero's Orations.....	.5	Cicero's Orations.....	.5	Cicero's Orations.....	.5
Anabasis.....	.5	History of England.....	.5	History of England.....	.5
History of England.....	.5	Botany.....	.5	Botany.....	.5
Algebra.....	.5	Algebra.....	.5	Algebra.....	.5

THIRD YEAR—First Term.


Vergil.....	.5	Vergil.....	.5	Vergil.....	.5
Latin Prose Composition.....	.5	Latin Prose Composition.....	.5	Latin Prose Composition.....	.5
Anabasis.....	.5	German.....	.5	Psychology.....	.5
Greek Prose Composition.....	.5	Elementary Physics.....	.5	Elementary Physics.....	.5
Elementary Physics.....	.5	English Literature.....	.5	English Literature.....	.5
English Literature.....	.5				

Second Term.

Vergil.....	.5	Vergil.....	.5	Vergil.....	.5
Latin Prose Composition.....	.5	Latin Prose Composition.....	.5	Latin Prose Composition.....	.5
Homer's Iliad.....	.5	German.....	.5	History of Education.....	.5
Greek Prose Composition.....	.5	Elementary Physics.....	.5	Elementary Physics.....	.5
Elementary Physics.....	.5	English.....	.5	English.....	.5
English.....	.5				

Third Term.

Vergil.....	.5	Vergil.....	.5	Vergil.....	.5
Latin Prose Composition.....	.5	Latin Prose Composition.....	.5	Latin Prose Composition.....	.5
Homer's Iliad.....	.5	German.....	.5	Methods of Teaching.....	.5
Greek Prose Composition.....	.5	Advanced Rhetoric.....	.5	Advanced Rhetoric.....	.5
Advanced Rhetoric.....	.5	Plane Geometry.....	.5	Plane Geometry.....	.5
Plane Geometry.....	.5				

 The figure after the name of a study indicates the number of recitations per week in that subject.

List of Students.

COLLEGIATE DEPARTMENT.

POST-GRADUATES STUDYING FOR A DEGREE.

Bahrman, Harry Rockafellar, A. B.....	New Milford, N. Y.
Henderson, John Frederick, A. B.....	Glouster
Henson, Clarence Cherrington, A. B.....	Clay
Foster, Zella, Ph. B.....	Point Rock
McCaughey, Ulysses M., B. Ped.....	New Lexington
Roach, Minnie O., Ph. B.....	Athens

CLASS OF 1900.

Bahrman, Harry Rockafellar	New Milford, N. Y.
Cline, Cecil Roy.....	Mt. Blanco
Crane, William I	Dayton
Hastings, Laura Matilda	Athens
Irwin, Rochester.....	South Perry
MacLane, Arwilla... ..	Toledo
Matheny, Charles Morris.....	Athens
Sheldon, Thomas Henry.....	Athens
Wilson, Mabel Zoe.....	Athens

SENIORS.

Batterson, Mayme Alice.....	Portsmouth
Black, Margaret Geneva.....	Glen Ebon
Blackwood, Nelle R.....	Athens
Brown, Minnie Frances.....	Athens
Bryson, Charles Harvey.....	Athens
Evans, Jacob Claire.....	Athens
Fuller, Nellie Mary.....	Athens
Horn, Burnice LeRoy.....	Medina

Kurtz, Anna Elizabeth.....	Lapeer, Mich.
Riley, Martina Mary.....	Guysville
Tullis, Flora Blanche.. .	Cincinnati
White, Gershom Franklin.....	Malta
Wickham, Mabel Leona.....	Glen Ullin, N. Dak.

JUNIORS.

Bishop, Robert Francis Jr.....	Athens
Caldwell, George Washington.....	Lottridge
Clayton, David Roy.....	Athens
Clements, Jerry Riley.....	Richmond Dale
Conner, May Sherwood.....	Athens
Copeland, William Frederick.....	Tappan
Irwin, Algernon Charles....	South Perry
Johnston, Fred Preston.....	Trimble
Lamb, George Franklin.....	Greencastle
Lapp, George Harlan	Will's Creek
Paine, Howard Shepherd.....	Hamden Junction
Pickering, Nelle Marcus.....	Athens
Riley, Ethel Eleanor.....	Guysville
Sheppard, Carl Dunkle ...	McArthur
Super, Gertrude Lefferts.....	Carlisle, Pa.
Townsend, Mary Allen.....	Athens
Wilson, Blanche Nell.....	Athens
Winter, Samuel Guy.....	Crooksville

SOPHOMORES.

Brunner, Henry.....	Portsmouth
Cave, Edward Ulysses.....	Lancaster
Conner, Flora Terhune.....	Athens
Coultrap, Floyd E.....	Athens
Craig, Thomas Watson.....	Athens
Evans, Margaret Lucile.....	Athens
Gist, Grace Lilla	Athens
Glazier, Lena Blanche.....	Athens
Grady, George Otto	Nelsonville
Haddox, Corydon Haven.....	Athens
Hambleton, Antrum Marion.....	Hooksburg

Headley, Sanford Alphonso.....	Jacksonville
Henry, Francis Beardsley.....	Athens
Heston, Frank M.....	Amesville
Linton, Nancy E.....	Frost
McGirr, Mabel.....	New Lexington
Mitchell, John Andrew.....	Jeffersonville
Morgan, Thurman Leroy.....	Waverly
Nease, Nannie Louise.....	Point Pleasant, W. Va.
O'Bleness, Mame.....	Athens
Scott, Grace Greenwood.....	Athens
Smith, Thomas Maynard.....	Rutland
Sprague, Jennie Edyth.....	Millfield
Sullivan, Fred T.....	Warwick, N. Y.
Tinker, Fred Huntington.....	Athens
Williamson, Lissa.....	Lancaster
Wood, James Perry, Jr.....	Athens
Wood, Mary Ellen.....	Athens
Zang, Jacob Milton....	Newport, Pa.

FRESHMEN.

Bean, E. Harry.....	Athens
Bean, Fannie Cozette.....	Athens
Biddison, Cladius L.....	Glouster
Biddle, John Sabine.....	Athens
Biddle, Victor.....	Athens
Bishop, Lenora Belle.....	Athens
Black, Flora Miriam.....	Gien Ebon
Blackwood, Edith Pearl.....	Athens
Brown, William Allen.....	Charleston, W. Va.
Cable, Will Ransom.....	Athens
Cooley, Guy Bower.....	Athens
Cornwell, Clifford Emerson.....	Athens
Cornwell, Sadie Tamzon.....	Athens
Coultrap, Frieda Gebhardt.....	Athens
Eider, Adam Griggs.....	Athens
Ely, George Leonard.....	Wellston
Finsterwald, Homer Grosvenor.....	Athens
Gabbert, Nan Maria.....	Point Pleasant, W. Va.

Gregg, William Rea.....	Winchester
Hibbard, George Grow.....	Athens
Higgins, Annette Amity Amanda.....	Athens
Higgins, Hannah Elizabeth	Athens
Hoover, Thomas Nathanael.....	Piketon
Hopkins, Hannah Jane.....	Downington
Horn, Clarence Howard	Medina
Jones, Joseph Ray.....	Jackson
Kirkendall, Emmett Royal.....	Athens
McDaniel, John Edmon.....	Pomeroy
McPherson, Joseph Elwyn.....	Jasper
Matheny, William Martin... ..	Shade
Michael, Alice Anna.....	Athens
Mitchell, William Harvey... ..	Jeffersonville
Needham, Fred Coates.....	Athens
Peters, Crissie May.....	St. Paul
Pickering, Fred Stewart.....	Athens
Place, Benoni Austin	Qualey
Roach, Clarence Wayne.....	Athens
Robbins, Edwin Ashton.....	Stewart
Roberts, Blanche.....	Millfield
Smith, Murray Franklin... ..	McArthur
Tuttle, Eugene Vivian.....	Palmyra
Waggoner, Chauncey William ..	Sugar Grove
White, Ennis Leslie.....	Malta
Williamson, Mark Hooker.....	Lancaster
Wood, Anna Estella.....	Smithfield
Wood, John Vorhes.....	Athens
Wright, James Otis, Jr.....	Athens
Yoshisaka, Heikichi.....	Kobe, Japan
Yoshisaka, Sukichi.....	Kobe, Japan

IRREGULAR AND SPECIAL STUDENTS.

Alderman, Adda Primrose.....	Athens
Angell, Emma Frances.....	Athens
Craig, Florence Maude, Ph. B.....	Athens
Dodge, Mary Helen	Athens
Enlow, Charlotte	Athens
Haddox, Lillie.....	Athens

Matthews, Carrie Alta, A. M.....	Athens
Miller, Annie May.....	Athens
Ryan, Ellen Jane, Ph. B.....	Athens
Slattery, Mary L.....	Athens
Welch, Ella C.....	Athens

THIRD PREPARATORY.

Atkinson, Estella.....	Zaleski
Barker, Joseph Frederick.....	Athens
Boblitt, Homer Clifford.....	Vigo
Bowman, Charles Foster.....	Bartlett
Brison, Mabel June.....	Millersport
Brison, Robert Burns.....	Millersport
Burke, Charles Edmund.....	Vigo
Cable, Clarence Wesley.....	Athens
Caldwell, Josephine.....	Lottridge
Connett, Harry Lewis.....	Athens
Cooper, Margaret Maude.....	Athens
Coultrap, Harry Mansfield.....	McArthur
Culley, Blanche Adelaide....	Nelsonville
Cunius, Neiman Richard.....	Drums, Pa.
Finsterwald, Ada Gertrude.....	Athens
Gordon, Josephus Malcolm.....	New Lexington
Grady Clare.....	Nelsonville
Gross, Fred Edward.....	Athens
Haddox, Louis Henry.....	Athens
Hawkins, Frank.....	Hamden Junction
Higgins, Cyrus Dow.....	Athens
Hill, Pearl Dwight.....	Canaanville
Howe, Mary Blanche.....	Athens
Hulbert, Theron Crissey.....	Seville
Humphrey, William Emerson.....	Rutland
Jewett, Carl Emmett.....	Nelsonville
Jones, Albert Johnson.....	Athens
Josten, James Mathis.....	Athens
Long, Herbert Jones.....	Athens
Longwill, John Burt	Warwick, N. Y.
Lopez, Jose Antonio.....	Arecibo, Porto Rico
McCrory, Augusta Ruth.....	Hayesville

MacLane, Clara May.....	Middleport
McLaughlin, George Evert.....	Adena
Mace, James Elwood.....	Buchtel
Matheny, William Alderman.....	Beaumont
Matthews, Lois Alameda.....	Sunbury
Maullar, Frank Byron.....	Gillespieville
Mercer, Francis Marion.....	Hooksburg
Morrison, William Guy.....	Pieasanton
Motter, Edwin Cameron.....	Gillespieville
Perry, William Albert.....	New England
Richardson, Frank Cowdry.....	Warwick, N. Y.
Riley, Mary Ellen.....	New Straitsville
Root, Alexander.....	Big Run
Sisson, Nora.....	Middleport
Spencer, Holmes Augustus.....	Parkersburg, West Va.
Taylor Lucy May.....	Tappan
Townsend, Elmer Wilson.....	Waterloo, Montana
Walker, Ina Maude.....	Athens
Willis, Eugene Pearle.....	Athens
Wilson, Homer Absalom.....	New Lexington
Wolfe, Arthur Almer.....	Athens
Wood, Mame Longfellow.....	Athens

SECOND PREPARATORY.

Andrews, James Garfield..	Derthick
Anthony, Allen Dwight. .	Union Furnace
Bailey, John Edson.....	Coolville
Barker, Dolly Beatrice.....	Athens
Beckler, Harley Eugene.....	Athens
Biddle, Frances Lillian.....	Athens
Biddle, James Kester.....	Athens
Bingham, Harry Barker.....	Athens
Burke, Flora Celia.....	Vigo
Covert, Benjamin Marlette.....	McCleery
Cullums, Dean Lewis.....	Canaanville
Davis, Edith Louise.....	Athens
Davis, Mabel.....	Big Run
Davis, Madora.....	Marshfield
Davis, Margaret Anne.....	Clay

Davis, Theora.....	Marshfield
Day, Charles William.....	Athens
Dumaree, Charles Henry.....	Mineral
Duncan, Burde Rebecca.....	Athens
Fuller, Herbert Earle.....	Athens
George, Blanche Hibbard.....	Hebbardsville
Gross, Charles William.....	Athens
Guthrie, Joseph Arthur.....	Garden
Hatch, Henry Arlow.....	Guysville
Henson, Clyde Evans.....	Clay
Heston, Eber Forest.....	Glouster
Hibbard, Albert Frederick..	Athens
Higgins, Winnie Belle.....	Athens
Ihle, Waid.....	Great Bend
Johnson, Nattie Tabitha	Athens
Jones, Willie.....	Guysville
Linscott, Flossie Edith.....	Athens
McKinley, Eber Devello.....	Jacksonville
Miller, Guy Dolphus.....	Athens
Miller, Marvin	Athens
Nixon, Bertha Evelyn.....	Buchtel
Norton, Willey Higby.....	Sabot Island, Va.
Patterson, Lena Estella.....	Athens
Phillips, Lenna Blanche	Athens
Phillips, William Richard..	Athens
Poston, Frank Alton.....	Siloam, W. Va.
Price, Albert Henry.....	Jamestown, N. Y.
Reading, Laura Lorinda.....	Shade
Robinett, Amanda Louisa.....	Albany
Shamel, George Maynard.....	Pleasanton
Snyder, Orin Earl.....	Mountville
Stoltz, Alma Mary.....	Rushville
Tinker, Arthur Whittaker.....	Athens
Welling, James Reed.....	Chauncey
Wilkes, Mabel Wilhelmine.....	Rawndale
Willis, Olney Carl	Athens
Young, Charles Lewis.....	Marshfield

FIRST PREPARATORY.

Akers, Charles Williams.....	Keyser, W. Va.
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Anthony, Lizzie Belle.....	Union Furnace
Armstrong, Marshall Eli.. ..	Cove
Atkins, Earle Van Bibber.....	Chase
Bingman, Carl Wilson..... .	Latrobe
Boyles, Ethel Vida..... .	Athens
Boyles, Gladys..... .	Athens
Brown, John Augustus..... .	Corning
Brickles, Ross Clayton..... .	Athens
Burchfield, Henry Raymond.....	Athens
Burley, Wilson Larzalere.....	Crooksville
Busch, Charles Dana.....	Stewart
Cable, Ernest W.....	Athens
Carter, Mary..... .	Jacksonville
Coleman, Harry Edson.....	Athens
Crawford, Mary Elma.....	Canaanville
Crossen, Maude Belle.....	Athens
Crow, Fred Wilkinson.....	Great Bend
Cutright, Grant.....	Crisp
Day, Warren Francis.....	Lottridge
Falls, Ida Lenora.....	Bishopville
Farmer, Luke Hays.....	Athens
Figley, Howard Marion.....	Athens
Finsterwald, Blanche Marie.....	Marchmont
Finsterwald, Ollie Delle.....	Marchmont
Fitzer, Louella.....	Buchtel
Fitzer, Phebe.....	Buchtel
Francis, Warren Frederick.....	Athens
Garber, Mabel Adwinna.....	Athens
Green, Sarah Bessie.....	Snowville
Harman, Clara..... .	Coolville
Hixson, Peter Edward..... .	Hixson
Hoskinson, Herbert Julius.....	Guysville
Inman, Elizabeth Elmo.....	Buchtel
Jack, Jesse Wallace..... .	Chase
Kinnison, Florence.....	Buchtel
Lee, Goldie.....	Buchtel
Light, Nettie Irene.....	Guysville
Linscott, Nehemiah Warren.....	Athens
McBeth, Charles Elijah.....	Georgetown

McBeth, Ira.....	Georgetown
McPherson, Herman Fletcher.....	Jasper
McVey, John Tipton.....	East Bank, W. Va.
Mansfield, Blanche May.....	Guysville
Marsh, Frederick Garfield.....	Halltown
Martin, Fred Peter.....	Athens
Masheter, Lenore Lena.....	Hebbardsville
Matheny, Clarence Albert.....	Beaumont
Merry, Lloyd Clarence.....	Chauncey
Mills, Edward Allen.....	Athens
Morris, Clarence McPherson.....	Greencastle
Morrow, David Campsey.....	Claysville, Pa.
Morse, Bessie Golden.....	Starr
Mulligan, Mary Ellen.....	Holy Cross, Kansas
Nye, Robert Eugene.....	Chauncey
Patterson, Nelle Elizabeth.....	Athens
Pierce, Jesse G.....	Pleasanton
Radcliff, Nelle.....	Buchtel
Richardson, Flossie.....	Frost
Riley, Lulia.....	Guysville
Riley, Michael Frederic.....	Guysville
Roach, Donna M.....	Athens
Russell, Lena E.....	Jobs
Sheldon, Nellie Adelia.....	Athens
Six, George Abraham.....	Chauncey
Six, Mary Cecile.....	Nelsonville
Slaughter, Ray Elton.....	Athens
Stanton, Flora May.....	Mineral
Stonebreaker, Francis Delbert.....	Demos
Stull, Blanche.....	Barlow
Tom, Nancy Luverna.....	Albany
Tucker, Allen Mansfield.....	Evans, W. Va.
Vorhes, Clayton Bertie.....	Fisher
Waterman, Carrie.....	Coolville
White, Mary Anne.....	Athens
Wilson, Cora Ella.....	Athens
Woodgerd, Emma Jane.....	Athens
Wooley, John Jefferson.....	Anthony
Wooley, Mary.....	Anthony

COMMERCIAL DEPARTMENT.

ADVANCED STUDENTS.

Bean, E. Harry (Business and Stenography).....	Athens
Gillett, Bertha (Business).....	Athens
Horn, Burnice LeRoy (Business).....	Medina
Johnston, Fred Preston (Stenography).....	Trimble
Logan, Clade Landon (Stenography).....	Athens

COURSE COMPLETED.

Barnes, Rafael (Stenography).....	Ponce, Porto Rico
Blackwood, Edith Pearl (Business and Stenography)....	Athens
Bougher, Ethel Ray (Stenography).....	Athens
Brunner, Henry (Business and Stenography).....	Portsmouth
Carpenter, Roll Franklin (Stenography).....	Athens
Cornwell, Sadie Tamzon (Stenography).....	Athens
Culley, Blanche Adelaide (Business and Sten.).....	Nelsonville
Dalrymple, Marie (Stenography).....	Athens
Dulaney, Harlan Herbert (Business).....	Mountville
Gillett, Bertha (Stenography).....	Athens
Henson, Clyde Evans (Business).....	Clay
Hibbard, Albert Frederick (Business).....	Athens
Hollis, Charles (Business).....	Peppers
Horn, Burnice LeRoy (Business).....	Medina
Horn, Clarence Howard (Business).....	Medina
Humphrey, William Emerson (Business).....	Rutland
Johnston, Fred Preston (Stenography).....	Trimble
Miller, Guy Dolphus (Business).....	Athens
Mills, Clara Ginevra (Stenography).....	Athens
Murphey, Thomas Garfield (Business).....	Elliott
Phillips, William Richard (Business).....	Athens
Riley, Mary Ellen (Business and Stenography).....	New Straitsville
Ross, Eva (Stenography).....	Rue
Sisson, Nora (Stenography).....	Middleport
White, Mame A., (Stenography).....	Coolville
Woodworth, Estella Minerva (Stenography).....	Millfield

COURSES UNFINISHED.

Akers, Charles Williams.....	Keyser, W. Va.
Ator, Elizabeth.....	Shade

Barnes, Sebastian.....	Ponce, Porto Rico
Bartlett, Harry Guthrie.....	Athens
Bean, Fannie Cozette.....	Athens
Bennett, Ada May.....	Pleasanton
Biddle, Victor.....	Athens
Brison, Mabel June.....	Millersport
Cable, Will Ranson.....	Athens
Clements, Jerry Riley.....	Richmond Dale
Cooper, Margaret Maude.....	Athens
Covert, Benjamin Marlette.....	McCleery
Craig, Thomas Watson.....	Athens
Day, Charles William.....	Athens
Davis, Margaret Anne.....	Clay
Duncan, Burde Rebecca.....	Athens
Eblen, Lucile Luella.....	Wellston
Eblen, Ray Emmett.....	Wellston
Edwards, Estella Lavanch.....	Nelsonville
Elder, Adam Griggs.....	Athens
Finsterwald, Ada Gertrude.....	Athens
George, Blanche Hibbard.....	Hebbardsville
Haddox, Louis Henry.....	Athens
Higgins, Hannah Elizabeth.....	Athens
Hollingsworth, Edgar Clifton.....	Creston
Hope, James Garfield.....	Athens
Ihle, Waid.....	Great Bend
Irwin, Algernon Charles.....	South Perry
Jewett, Carl Emmett.....	Nelsonville
Josten, James Mathis.....	Nelsonville
Laird, Mattie Adean.....	Athens
McAdoo, Madge Vickers.....	Mineral
MacLane, Clara May.....	Middleport
Mansfield, Blanche May.....	Guysville
Matthews, Carrie Alta.....	Athens
Michael, Nelle Gay.....	Athens
Mitchell, William Harvey.....	Jeffersonville
Morris, Clarence McPherson.....	Greencastle
Nye, Don Carlos.....	Chauncey
Pickering, Fred Stewart.....	Athens
Purdy, Mossie Pearl.....	Athens

Radcliff, Nelle G.....	Buchtel
Radcliff, George Howard.....	Gillespieville
Scott, Grace Greenwood... ..	Athens
Shaver, James Almah.....	East Bank, W. Va.
Sheppard, Carl Dunkle.....	McArthur
Thompson, Bernard Heatherly.....	Athens
Townsend, Elmer Wilson.....	Waterloo, Montana
Warrener, Sydney Kelley.....	Athens
White, Ennis Leslie.....	Malta
Williams, Martha Decima.....	McArthur
Wolfe, Arthur Almer.....	Athens
Wood, John Vorhes.....	Athens
Wood, Mayme Longfellow.....	Athens
Woodgerd, Emma Jane.....	Athens

DEPARTMENT OF MUSIC.

Anthony, Allen Dwight.....	Union Furnace
Beckler, Harley Eugene.....	Athens
Bethel, Mac.....	Athens
Beverage, Lorena.....	Marshfield
Birge, Bessie Mary.....	Chauncey
Black, Flora Miriam.....	Glen Ebon
Brisson, Mabel June.....	Millersport
Campbell, Clifford.....	Athens
Campbell, Edna.....	Athens
Chappelle, Iola.....	Athens
Charter, Olive Marie.....	Athens
Clayton, David Roy.....	Athens
Clements, Grace Brown.....	Richmond Dale
Craig, Florence Maude.....	Athens
Craig, Thomas Watson.....	Athens
Cuckler, Minnie Luella.....	Athens
Davis, Edith Louise.....	Athens
Dickason, Clara.....	Athens
Eaton, Edith Mildred.....	Athens
Edwards, Estella Lavanch	Nelsonville
Evans, Margaret Lucile.....	Athens
Fitzer, Catherine.....	Buchtel
Francis, Mildred.....	Athens

Freeman, Wray.....	Athens
Fulton, Lula.....	Athens
Gabbert, Nan Maria	Point Pleasant, W. Va.
Gist, Grace Lalla.....	Athens
Haddox, Corydon Haven.....	Athens
Hooper, Olah Angell.....	Athens
Hope, Ella.....	Athens
Henry, Lucile.....	Athens
Henry, Virgene.....	Athens
Howe, Mary Blanche.....	Athens
Hudson, Frankie Lorene.....	Athens
Hunter, Mary.....	Athens
Irwin, Algernon Charles.....	South Perry
Johnson, Nettie Tabitha.....	Athens
Jones, Albert Johnson.....	Athens
Krepple, Frank Henry.....	Nelsonville
Linscott, Flossie Edith.....	Athens
McVey, John Tipton.....	East Bank, W. Va.
Moore, Helen Louise.....	Athens
Mourne, Maud Lillian.....	Athens
Murphey, Mabel.....	Albany
Nease, Nannie Louise.....	Point Pleasant, W. Va.
Parker, Emmett.....	Anthony
Parker, Everett.....	Anthony
Pendergrass, Maude.....	Chauncey
Paister, Nelle Roach.....	Detroit, Mich.
Pickett, Florence.....	Athens
Pickett, Mary Katherine.....	Athens
Pierce, Maud....	Pleasanton
Roach, Eva May.....	Athens
Roby, Bessie.....	Chauncey
Russell, Lena L.....	Jobs
Ryan, Ellen Jane, Ph. B.....	Athens
Shaver, James Almah.....	East Bank, W. Va.
Sisson, Blanche.....	Nelsonville
Sloane, Jessie Pauline.....	Athens
Super, Gertrude Lefferts.....	Carlisle, Pa.
Taylor, Lucy May.....	Tappan
Ullom, Jane Bayard.....	Athens

Waggoner, Chauncey William.....	Sugar Grove
Walker, Mary.....	Athens
Walsh, Emma Evelyn.....	Athens
Wilson, Ellen Veronica.....	Buchtel
Wilson, Homer Absalom.....	New Lexington
Wood, Robert.....	Athens
Wood, Mary Ellen.....	Athens
Woodworth, Lena.....	Athens
Zang, Jacob Milton.....	Newport, Pa.

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	<hr/>
	477
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	<hr/>
Total.....	405

Alumni Association.

Constitution.

ARTICLE I. This Association shall be called the "Alumni Association of the Ohio University."

ART. II. The Officers of the Association shall be a President, Vice President, Secretary, Treasurer, and an Executive Committee, consisting of three members, to be chosen annually.

ART. III. The annual meetings of this Association shall be held in connection with the Commencement exercises of the University.

ART. IV. The object of this Association shall be to cultivate fraternal relations among the Alumni of the University, and to promote the interests of our Alma Mater by the holding of social reunions, by literary exercises, or by such other means as the Association may, from time to time, deem best.

ART. V. Any member of the Faculty, and graduate of the University, also any one who has spent three years in the college classes of the University, and has been honorably dismissed, may, by the payment of one dollar and the signing of the Constitution, become a member of this Association.

ART. VI. This Constitution may be altered or amended at any annual meeting, by a vote of two-thirds of those present at such meeting.

ART VII. *Amendment.* The members of this Association shall each pay into its treasury an annual fee of one dollar, and the sum so paid shall be expended in defraying the expenses of the annual reunion.

Officers of the Alumni Association..

President, I. M. Foster, '95.

Vice President, H. G. Stalder. '93.

Secretary, Amy Weihr, '95.

Treasurer, E. D. Sayre.

Executive Committee.

L. G. Worstell, '88.

W. B. Lawrence, '92.

L. M. Jewett, '61.

Mrs. D. H. Thomas, '96.

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EWING HALL

CATALOGUE
OF
OHIO UNIVERSITY
ATHENS, OHIO

1901 - 1902

AND
CIRCULAR OF INFORMATION
FOR
1902 - 1903

PUBLISHED BY THE UNIVERSITY
1902

"Religion, morality, and knowledge, being necessary to good government and the happiness of mankind, schools and the means of education shall forever be encouraged."

Article 2, Ordinance of 1787.

*"That there shall be an University instituted and established in the town of Athens * * * for the instruction of youth in all the various branches of the liberal arts and sciences, for the promotion of good education, virtue, religion, and morality, and for conferring all the degrees and literary honors granted in similar institutions."*

Section 1, Territorial Act, January 9, 1802.

"Whereas, Institutions for the liberal education of youth, are essential to the progress of arts and sciences, important to morality, virtue, and religion, friendly to the peace, order and prosperity of society, and honorable to the government that encourages and patronizes them," etc.

Preamble, Act of Ohio Legislature Establishing the
Ohio University at Athens, February 18. 1804.

CALENDAR — 1902

TUESDAY, JANUARY 7.....Opening of Winter Term.
FRIDAY, MARCH 21.....Close of Winter Term.
TUESDAY, APRIL 1.....Opening of Spring Term.
SUNDAY, JUNE 15.....Beginning of Commencement Week.
THURSDAY, JUNE 19.....Commencement Day.
MONDAY, JUNE 23.....Opening of Summer Term.
FRIDAY, AUGUST 1.....Close of Summer Term.
TUESDAY, SEPTEMBER 9.....Opening of Fall Term.
FRIDAY, DECEMBER 19.....Close of Fall Term.

CALENDAR — 1903

TUESDAY, JANUARY 6.....Opening of Winter Term.
FRIDAY, MARCH 20.....Close of Winter Term.
TUESDAY, MARCH 31.....Opening of Spring Term.
SUNDAY, JUNE 14.....Beginning of Commencement Week.
THURSDAY, JUNE 18.....Commencement Day.
MONDAY, JUNE 22.....Opening of Summer Term.
FRIDAY, JULY 31.....Close of Summer Term.
TUESDAY, SEPTEMBER 8.....Opening of Fall Term.
FRIDAY, DECEMBER 18.....Close of Fall Term.

BOARD OF TRUSTEES

HON. GEORGE W. BOYCE.....	Cincinnati	1875
HON. V. C. LOWRY.....	Logan	1885
L. M. JEWETT, ESQ.....	Athens	1887
R. E. HAMBLIN.....	Toledo	1890
C. C. DAVIDSON, A. M.....	Alliance	1891
PROF. A. LEUE, PH. D.....	Cincinnati	1891
HON. LUCIEN J. FENTON.....	Winchester	1892
J. E. BENSON.....	Cleveland	1892
E. J. JONES, ESQ.....	Athens	1893
J. M. WELCH, ESQ.....	Athens	1895
WM. E. BUNDY, ESQ.....	Cincinnati	1896
J. P. WOOD, ESQ.....	Athens	1896
F. C. WHILEY.....	Lancaster	1896
ALBERT DOUGLAS, ESQ.....	Chillicothe	1897
HON. H. W. COULTRAP.....	McArthur	1897
THOMAS BLACKSTONE, M. D.....	Circleville	1898
ISRAEL M. FOSTER, ESQ.....	Athens	1900
T. R. BIDDLE, M. D.....	Athens	1900
HENRY O'BLENESS	Athens	1901
GOVERNOR GEORGE K. NASH.....	Ex-Officio
PRESIDENT ALSTON ELLIS.....	Ex-Officio

OFFICERS OF THE BOARD

ALSTON ELLIS, *President.*

A. J. FRAME, *Treasurer.*

L. M. JEWETT, ESQ., *Secretary and Auditor.*

FACULTY

ALSTON ELLIS, PH. D., LL. D.,
President.

CHARLES WILLIAM SUPER, PH. D., LL. D.,
Professor of Greek and Dean of the College of Liberal Arts.

DAVID J. EVANS, A. M.,
Professor of Latin.

WILLIAM HOOVER, PH. D., LL. D.,
Professor of Mathematics and Astronomy.

ALBERT A. ATKINSON, M. S.,
Professor of Physics and Electrical Engineering.

BREWSTER OWEN HIGLEY, M. PH.,
Professor of History and Political Economy.

WILLIAM FAIRFIELD MERCER, PH. D.,
Professor of Biology and Geology.

WILLIAM B. BENTLEY, PH. D.,
Professor of Chemistry.

FRANK C. DOAN, A. B., A. M.,
Professor of Psychology and Pedagogy.

EDWIN TAUSCH, PH. D.,
Professor of Modern Languages.

EDWIN WATTS CHUBB, LITT. D.,
Professor of Rhetoric and English Literature.

ELI DUNKLE, A. M.,
*Associate Professor of Greek and Principal of the Preparatory
Department.*

HIRAM ROY WILSON, A. M.,
Associate Professor of English.

CHARLES M. COPELAND, B. PED.,
Principal of the Commercial College.

JAMES PRYOR McVEY,
Director of the College of Music.

NELLIE H. VAN VORHES,
Instructor on the Piano and Virgil Clavier.

MARGARET EDITH JONES,
Instructor on the Piano and in Voice—Culture and Harmony.

MARGARET ULLOM,
Instructor on the Violin.

MARIE LOUISE STAHL,
Instructor in Drawing and Painting.

MABEL K. BROWN, PH. B.,
Instructor in Stenography and Typewriting

ARTHUR CLARENCE JONES,
Director of Athletics.

GEORGE E. McLAUGHLIN,
Assistant in Physics and Electricity.

NEIMAN RICHARD CUNIOUS,
Instructor in Penmanship and Mechanical Drawing.

GEORGE H. LAPP,
Assistant in Physics.

GEORGE F. LAMB,
Assistant in Biology.

EUGENE V. TUTTLE,
Assistant in Chemistry.

ELI DUNKLE, A. M.,
Secretary and Librarian.

CHARLES G. MATTHEWS, PH. M.,
Assistant Librarian.

FACULTY COMMITTEES

REGISTRATION AND CLASSIFICATION.

Professors Dunkle, Higley, Evans, and Atkinson.

RULES AND REGULATIONS

Professors Evans, Bentley, and Tausch.

COURSES OF STUDY.

Professors Super, Hoover, and Mercer.

SUMMER SCHOOL.

Professors Copeland, Higley, Chubb, and Dunkle.

LIBRARY.

Professors Chubb, Doan, and Super.

STUDENT WELFARE.

Professors Higley, Stahl, and McVey.

STUDENT ORGANIZATIONS.

Professors Wilson, Copeland, and Atkinson.

PUBLIC EXERCISES.

Professors Hoover, McVey, and Evans.

ATHLETICS — GYMNASIUM.

Professors Wilson, Mercer, and Doan.

SPECIAL CASES OF DISCIPLINE

Professors Bentley, Atkinson, and Copeland.

COLLEGE PAPER — "THE MIRROR."

Professors Chubb, Higley, Doan, and Wilson.

GENERAL INFORMATION

OHIO UNIVERSITY

ORIGIN OF THE UNIVERSITY

The existence of the Ohio University was provided for as early as 1787, in the purchase made from the Government of the United States by the Ohio Company of Associates. By the contract between these two parties, two townships of land were set apart for the purpose of a University, and placed under the care of the Legislature of the State. The University was organized under an act of the Legislature passed in 1804. Its Trustees are appointed by State authority and the Governor of the State is, *ex-officio*, a member of the Board.

LOCATION

Athens, the seat of the University, is situated in the southeastern part of the State. It is easily accessible from the east and west by the Baltimore & Ohio Southwestern railroad and its branches; from the central and northern portions of the State by the Columbus, Hocking Valley, and Toledo, and Kanawha and Michigan railways. By these routes it is about one hundred and sixty miles east from Cincinnati and seventy-five miles southeast from Columbus. The sanitary arrangements of the town are unsurpassed. Its principal streets are paved; it is provided with waterworks and sewerage; its board of health is vigorous and efficient. There are few towns in the country that are more desirable as a place of temporary or permanent residence than Athens.

The lover of natural scenery cannot fail to be charmed with its picturesque surroundings. The winding valley of the Hockhocking and the wooded hills beyond present a series of lovely views from the University, while the wide prospects,



CENTRAL BUILDING, ERECTED IN 1817

as seen at certain seasons from some of the neighboring summits, are seldom surpassed in quiet and varied beauty.

The University buildings are located in a beautiful campus. They occupy a slight elevation extending east and west across the grounds, fronting the north. Before them lies a park of about five acres containing a grove of fine forest trees and skirted along its northern limit by a row of magnificent elms. Beyond these sentinel trees extends a greensward sloping beautifully to the street. In front of the line at the northwest angle, stands an elegant soldiers' monument. When this park is lighted up at night by electricity it presents a charming view. The remainder of the campus, which is in the rear of the buildings, is devoted to recreation.

BUILDINGS

These are of brick and six in number. The central building was erected in 1817, and is the oldest college edifice northwest of the Ohio river. This venerable structure is dear to many by strong and tender associations, and to many more by means of eminent men who have here studied and taught. It has been modernized and is admirably adapted to its uses for college work.

The two wing buildings, once used for dormitories, have been transformed into recitation rooms and laboratories.

The chapel building in the rear of the central building is used by the College of Music. In the second story are society halls with committee rooms attached.

The new building, known as Ewing Hall, is one of the finest college buildings in southeastern Ohio. It is a T-shaped structure, four stories high including basement, and measures 156 feet in length by 131 in depth. Within is an auditorium, with gallery, furnishing seating capacity for about nine hundred people. It contains a president's office, nine recitation rooms with professor's offices attached, the laboratories of the Department of Physics and Electricity, a trustees' and secretary's office, the rooms of the Commercial College, art rooms, and a gymnasium in the basement with four thousand square feet of floor. The methods of heating and arrangement of detail are modern and well-adapted to educational work.

WOMEN'S HALL

This is located nearly opposite the north entrance of the campus. It is a fine, commodious brick structure, heated by steam, where beautiful rooms are occupied by women teachers and students. Excellent boarding can be had at moderate cost at the hall.

Hereafter all young women who are not residents of Athens will be required to reside in the dormitory unless the rooms are all occupied. Only in special cases will exceptions be made. This regulation has been adopted with a view solely to the best interests of the young women themselves and not with any purpose to restrict them in the enjoyment of every legitimate privilege. It is the aim of the management to make the place as attractive and pleasant as possible and at the same time to keep the cost as low as is consistent with the accommodations provided. The cost will range from \$3.25 to \$4.00 per week according to size and location of room. Everything is furnished except soap and towels. About thirty young women can be received.

LIBRARY AND READING ROOM

In the study of Literature and History the most important aid, in addition to a good teacher, is a large stock of well-selected books. In this respect the Ohio University is liberally provided. The college and society libraries contain about 16,000 volumes, a large part of which are of recent purchase. In addition to the books of a general character, the private libraries of the professors, which contain works of a more special character to the number of several thousand, are also accessible, under certain limitations, to the students. The reading-room furnishes access to the latest contributions on all topics under current discussion. Some of the largest works are not only useful for reference, but also for purposes of original investigation.

It is the special aim of the managers of the Library to acquire as rapidly as issued all the leading works bearing on Pedagogy whether in German, French, or English. A large number of works on this topic and the history of education is already on hand. The Library is so managed as to be

accessible every day. The reading-room, in which are placed most of the reference books and all the periodicals, is accessible at all times. The reading of well chosen books not only tells the student what others have thought in every department of knowledge, but likewise stimulates him to think for himself. A good library is of itself a university.

APPARATUS AND CABINET

The departments of Mathematics, Astronomy, Physics, Chemistry, and Biology are well equipped with valuable apparatus, which is put at the personal disposal of the student. The subjects are illustrated upon the lecture-table, but it is insisted upon that a student really enters upon possession of his knowledge only when he has acquired skill in carrying on laboratory experiments by himself under the supervision of the professor.

The large Biological Laboratory has been fitted up with appliances suitable for pursuing extensive courses of study in the various departments of Biology, the selections being made with a view to furnishing each student with such apparatus, reagents, etc., as are necessary for independent work. To this end more than a score of microscopes have been provided and many duplicates of other appliances are at hand. Excellent histological apparatus is in use for freezing and sectioning, and the laboratory is also well-equipped for embryological and bacteriological work.

In the department of Physics, besides balances, specific gravity apparatus, pulleys, centrifugal devices, pumps, barometers, manometers, pendulums, and a great deal of other apparatus for the demonstration of the principles and laws of mechanics, etc., there are: a set of mounted tuning-forks for bows, a complete set of electromagnetic forks of various pitches, sonometer, siren, pipes, etc., for work in sound; lenses, prisms, mirrors, polariscopes, spectroscope, spectrometer, diffraction gratings, projecting lantern, cameras, etc., for light; radiometers, thermometers, calorimeters, and other apparatus for heat; and a very good equipment of dynamos, motors, calibrating and measuring instruments, resistances, galvanometers, condensers, magnetometers, induction coils, batteries, Wheatstone bridges, various forms of revers-

ing switches and keys, electrometers, standard cells, electro-dynamometers, and a great deal of other apparatus suited to the general demonstration of the subjects of electricity and magnetism, and to the requirements of the electrical course outlined elsewhere in this catalogue.

The chemical laboratory is equipped for work by the students in general chemistry, qualitative and quantitative analysis, and organic chemistry. The work tables for students are supplied with water and gas. Hoods are supplied for experiments upon the noxious gases. A still is set up for the continuous production of distilled water. The apparatus required by the students for the laboratory work is loaned to him and payment required at the end of the term only for what is missing or has been broken.

A fine set of surveying instruments of the most approved kind has recently been purchased for the students in field work. The cabinet affords important aid in the study of Mineralogy and Geology. But we are greatly in need of further contributions thereto, and to this end the assistance of the friends of the institution is greatly desired and earnestly solicited.

MAPS AND CHARTS

An excellent set of maps, chiefly those of Kiepert, intended to illustrate the physical features and political changes of the historical countries of Europe and the East, has lately been added to the equipment of the institution. These, in addition to those already on hand, afford an important and well-nigh indispensable aid to the study of history and geography. The outfit in this regard is believed to be unusually complete.

ADMISSION AND DISCIPLINE

Entering the University will be considered a pledge to obey its rules and regulations. These are few and simple, appealing to the students' self-respect and sense of personal responsibility. Persons of known bad character or of lazy habits are not wanted and will not be retained unless they show a decided desire to reform. Students from other colleges must present certificates of honorable dismissal.

Candidates for advanced standing are, in all cases, examined to ascertain their thoroughness and proficiency; but certificates from other institutions will be accepted for the amount of work done in the different departments.

In exceptional cases students are admitted to classes for a week on trial, without examination, provided the professors in charge are reasonably certain that they can maintain their standing.

Women are admitted to all departments of the University on the same terms and under the same conditions as those prescribed for men.

A record is made of the daily work of each student. When the standing of the student, as shown by this record and examination, falls below an average grade of 70 per cent., he must review the study. A record is also kept of each student's deportment. A low standing in either record is followed by private admonition, and notice is given to the parent or guardian.

Whenever the conduct of a student is such as to indicate that he is unfit to be a member of the University, either because of immorality or because of habitual neglect of his college duties, he will be requested to withdraw. But in the latter case, his parents will first be notified, and if he is not withdrawn within a reasonable time, he will be dismissed.

Stress is laid upon the fact that no young man or woman need hesitate to enter the Ohio University for lack of means, or because of inadequate preparation. The surest guaranty of success is an honest and a determined effort to succeed. If the student has learned nothing more during the years spent in college than how to study and how to investigate any subject of which he takes hold, no matter how meager his knowledge may be at the start, he will be able to enlarge it with astonishing rapidity. His time thus spent, whether it be measured by terms or years, will have been wisely employed. Our age is sadly in need of men and women who have such a preparatory training for life's duties.

RELIGIOUS INFLUENCE

Students are required to be present at general exercises in the chapel every morning, unless excused by the faculty,

and to attend public worship on the Sabbath; but the choice of the place of attendance is left with the student or his parents. A student's prayer meeting is held once a week, at which attendance is optional. The University is not sectarian, and no effort is made to inculcate the doctrines of any particular creed or denomination; but the utmost care is taken to promote sound and healthy religious sentiments. We feel sure that nowhere do these matters receive more careful attention.

The founder of the Ohio University believed that "religion, morality and knowledge are necessary to good government and the happiness of mankind;" and it has been the steady purpose of those to whom has been entrusted the duty of carrying out his plans to insist on the intimate relation existing between the three. The good man, the good citizen is not he who is best informed, but he who is constantly inspired with the thought that his knowledge should be used for the good of his fellow-men. Knowledge without virtue is a curse and not a blessing. It is the constant policy of both Trustees and Faculty to inspire students with the love of knowledge, and with desire to practice religion and morality. Accordingly only those persons are invited to profit by the means of instruction here placed within their reach, who are willing to conform their conduct as far as possible to the teachings of the Bible. We expect students who have spent some time with us to depart not only wiser but also better than they came. If such is not the case it will not be for want of care on the part of the Faculty.

YOUNG PEOPLE'S CHRISTIAN ASSOCIATION

Both the Y. M. C. A. and the Y. W. C. A. have flourishing organizations connected with the Ohio University, and a large proportion of the students are members of one or the other. These hold meetings weekly or oftener, provide lectures on religious or Biblical topics, and take an active interest in promoting the spiritual, moral, and intellectual welfare of the entire student body. The management of the University is in hearty sympathy with these organizations and does all that is possible to aid them in their work.

FEES

There is no charge for tuition in any of the regular preparatory or collegiate classes. But all students pay a registration fee of five dollars per term. Besides this, instruction in the following branches is to be regarded as extra and must be paid as follows:

Piano, elementary	\$12 00
Piano, advanced	15 00
Voice culture	15 00
Use of piano, one hour daily.....	2 00
Bookkeeping and allied branches.....	5 00
Stenography and typewriting.....	5 00
Painting	10 00

The fees in Music include the registration fee of five dollars.

The fees named are for *each* of the three terms of the college year. In all branches of musical instruction two lessons per week are given. For full statements regarding the work of the College of Music and the Commercial College see special announcements elsewhere. Instruction in Drawing is free to all students whose registration fees have been paid.

The regular fee in Chemistry and Electrical Engineering is one dollar per term to cover the cost of materials used. To this should be added a small charge for breakage—to careful students usually not more than a few cents. After the second term in Chemistry the regular fee is two dollars per term.

Those students who wish to pursue studies privately in the college departments for which they desire to have credit toward the attainment of a degree, will be required to pass an examination on each branch, and for this examination an extra fee of \$5.00 will be charged, which may, however, be remitted by a vote of the Faculty.

All fees must be paid within the first thirty days of the term. No exception can be made to this regulation. The registration fee must be paid when the student enters.

EXPENSES

Board can be obtained within a reasonable distance of the University at \$3.25 per week. By forming clubs, students may board at \$2.25 per week. Those students whose circumstances require it, are allowed to board themselves, by which means their expenses may be still further reduced; but this plan is not recommended, because likely to be prejudicial to health.

The actual cost of an education at the University will depend very much upon the disposition and habits of the students. The necessary cost is very low—as low as that of any institution affording equal advantages. It is earnestly recommended to parents not to furnish their sons or daughters with extravagant means. The scholarship and character of a student are often injured by a free indulgence in the use of money. Whatever is beyond a reasonable supply exposes him to numerous temptations and endangers his success and respectability.

As persons frequently wish to know as nearly as may be, the cost of a student for one year at the Ohio University, the following estimates are here given:

LOWEST.	HIGHEST.
Registration fee..... \$15 00	Registration fee\$ 15 00
Board in clubs..... 90 00	Board in private family..... 140 00
Room 30 00	Room 30 00
Books 10 00	Books 15 00
<hr/> \$135 00	<hr/> \$200 00

This estimate is for three terms or forty weeks, and includes all necessary expenses except washing, and a small fee for membership in the literary societies. The additional charges for students who take electives in Chemistry and for the special class in Electricity are elsewhere noted.

METHODS OF INSTRUCTION

Instruction is given both by recitation and lecture. The constant aim in both is to awaken interest in study, to aid in the acquisition of knowledge, and to develop the powers of thought and communication.



COLLEGE OF MUSIC

Some subjects can be better treated in lectures than others. The knowledge the student has of a subject is likewise a factor that is taken into account. The lecture method is generally better adapted to advanced students than to those who are still in the elements. After the elementary principles have been thoroughly mastered from the textbook, supplemented with such elucidations as seem to be called for, the student is generally prepared to profit by the lectures of the teacher, and to grasp the wider outlook that is the result of a knowledge of a subject rather than of the contents of any single book, or even of several books. In the observational studies the learner is, as far as possible, brought face to face with the objects themselves under consideration. The classes in Botany and Geology make excursions into the surrounding country for the purpose of collecting specimens and deriving scientific knowledge from original sources. The classes in Surveying and Mensuration have practice in the use of instruments in field work.

COURSES OF STUDY

Such courses of study have been adopted as experience has proved to be best adapted to the purpose of liberal education. The classical course, in fullness and matter, will compare favorably with that of the best institutions. The philosophical course is so arranged as to meet the wants of those who may prefer to study modern languages and English branches instead of Greek, for which French, German and English are substituted. In the scientific, prominence is given to Mathematics and the Physical Sciences.

The pedagogical course is intended to fit young people for the profession of teaching. A fuller statement of its aims and methods will be found in another part of this catalogue.

Those who are able to attend for a short time only, may take a select course, provided the studies they wish to pursue are such as they are qualified to enter upon with advantage. But no student will take a study to which he has not been assigned, or discontinue a study, without permission obtained from the Faculty.

ELECTIVES

Each student in a regular course will be required to take at least fifteen class exercises per week, and no student will be permitted to take more than seventeen, except on permission of the Faculty. This permission will be given only on the written request of the student. Students in any one of the courses can select subjects in any one of the others below the class to which they are assigned, but not above, except on approval of the Faculty, who must be convinced that they have had sufficient preliminary training to pursue the elected study with advantage. As will be seen, about half the subjects after the freshman year are elective. But in addition to these a large number of others are offered for the benefit of those persons who wish to specialize still further along particular lines. It needs to be noted, however, that they are not offered unconditionally. Regard will be had to the time at the disposal of the teachers and to the number of students taking any particular elective, as well as to their preliminary training. In all cases where a student's knowledge of English is defective, he must pursue this branch until his deficiencies are made up.

During the past few years a number of students, both undergraduate and post-graduate, have pursued advanced studies on special lines. With the recent increase in the number of the Faculty a large number of students can be accommodated and in a larger number of branches.

DEGREES

The Bachelor's degree (A. B., Ph. B., B. S., or B. Ped.) is conferred upon students who have completed any one of the four courses laid down in another part of this catalogue. The fee for diploma is five dollars.

The Master's degree (A. M., Ph. M., M. S., or M. Ped.) will be conferred upon graduates of this or any other college who give evidence to the Faculty that they possess such literary and scientific attainment as will make them worthy recipients of it, and have, in addition, furnished a thesis after one year's work in residence. The fee for this degree is ten dollars.

No degree will be conferred until all dues are paid.

THE EMERSON PRIZE POEM FUND

The late W. D. Emerson, of the class of '33, bequeathed to the Trustees of the University the sum of one thousand dollars, the interest on which is to be awarded every second year to the student or graduate of the institution who shall write the best original poem. As at present invested it yields a biennial revenue of about \$75.00. The first award was made in 1893 to Miss Carrie Schwefel. The second award, under the bequest, was made in 1895. The prize was divided between Miss Esther Burns and Mr. John H. Atkinson. The judges were Mrs. Annie Fields, Mr. Maurice Thompson, and Mr. E. C. Stedman. The third, to Miss Virginia M. Houston, the judges being Mrs. Margaret E. Sangster, Mr. W. D. Howells, and Mr. Clinton Scollard.

The fourth award was to Miss Virginia M. Houston, Miss Willa C. MacLane, and Mr. John H. Atkinson.

For the fifth contest, which occurred in September, 1901, ten productions were submitted. The three ranking poems, in order, were as follows:

1. VIA DOLOROSA, Miss Willa C. MacLane, Toledo, O.
2. THE OLD FLAG, Mr F. C. Schofield, Dunkirk, Ind.
3. SONNET TO A STREAM, Miss Virginia M. Houston, Warwick, N. Y.

The ten productions were submitted to Mrs. Ella Wheeler Wilcox, Professor C. E. Woodberry, and Professor W. H. Venable, and each acted entirely independent of the others.

There was but slight diversity of opinion among the judges as to which is entitled to rank highest, one of them placing VIA DOLOROSA first and the other two second. THE OLD FLAG was put second by one of the referees, third by another, and fifth by another. The general average, however, makes it second in order of merit. One of the judges placed SONNET TO A STREAM third, another fifth, and the third seventh. The general average, therefore, ranks it third in order of merit.

The thanks of the University authorities are due and are herewith tendered to these distinguished writers for the care with which they examined the verses submitted to them as well as for the interest they took in the competition.

For the information of future contestants, and others interested, the conditions of the competition for the Emerson Prize are herewith given:

Amount about \$75. Date of award not later than the opening of the Fall term, 1903.

The competitors must be either graduates or students in actual attendance at the University.

The poems must be in the hands of the President of Ohio University before the opening of the Fall term, 1903.

The prize will be awarded upon the merits of the production, not its length.

Anyone having, in any contest, been awarded first prize shall not again be eligible to contest.

The judges shall be three disinterested persons appointed by the President of Ohio University and the Professor of English Literature *ibidem*, who shall independently of each other pass upon the productions submitted to them.

In the preparation of the MSS. the following regulations are to be observed:

Use the typewriter.

Use paper eight and one-half by eleven inches.

Write only on one side.

Mark the MSS. with some pseudonym or character, and send this in a sealed envelope with your name and address to the President of the University. This envelope will not be opened until the award of the judges has been made.

LITERARY SOCIETIES

There are two literary societies in the University, the Athenian and the Philomathean. They occupy well-equipped halls in the former chapel building. The members have opportunity to exercise themselves in Declamation, Composition, and Oratory, and to become familiar with the modes of conducting business in deliberative assemblies. Debating clubs are also formed from time to time by those students who desire to have more extended practice in the public discussion of important questions. In the annual contest in oratory between the two literary societies, Miss May S. Conner, of the Philomathean Society, won the first prize of \$25.00, and Miss Lissa Williamson, of the same society,

won the second prize of \$15.00. The second prize was donated by the Rev. G. Walton King, of the First Presbyterian Church of Athens.

FACILITIES FOR PHYSICAL INSTRUCTION

GYMNASIUM — The University has a large gymnasium, which has already been equipped with considerable apparatus, and the supply is being increased from time to time. The dressing-rooms are supplied with large lockers for clothing and with hot and cold shower baths. The use of the baths and the gymnasium is free to students. In the conduct of the gymnasium the aim is not so much the development of a few gymnastic experts as the provision of wholesome exercise for the many. For this purpose regular instruction in light gymnastics is given for both ladies and gentlemen. Thirty hours' credit toward graduation is given for one year's class work.

ATHLETIC FIELD — The athletic field is a level tract of ten acres, owned by the University and situated a few minutes' walk southward from the campus. This field has been equipped especially for base-ball and foot-ball. The campus itself provides room only for tennis-courts, and for a small practice ground close by the gymnasium.

SUPERVISION OF ATHLETIC SPORTS — The general supervision of athletic sports is vested in two boards; the Advisory Board and the Faculty Committee. The Advisory Board, elected by the Athletic Association, consists of five members, and represents the Faculty, the alumni, and the students. This board has charge of all financial affairs of the Athletic Association and the arrangement for intercollegiate games. The Faculty Committee, composed of three members, has charge of all matters involving the relation of athletic sports to the University; for example, the eligibility of players proposed for any University team and the investigation of charges of misconduct on the part of players. The policy of the committee is to foster the spirit of honor and gentlemanliness in athletics, to suppress evil tendencies, and to see that play shall not encroach too much upon the claims of work.

DETAILED STATEMENT OF THE Departments of Instruction

GREEK

CHARLES W. SUPER, *Professor.*

ELI DUNKLE, *Associate Professor.*

It is the aim of this Department to enable students to read the authors commonly read in colleges and to make them acquainted as far as possible with the literature and life of the ancient Greeks. In teaching the language, especially that of Homer, attention is drawn to those words that are etymologically related to other languages, particularly Latin, German, and English. Especial prominence is given, as the student progresses, to the following points: First, form; second, vocabulary; third, relation to cognate languages; fourth, literature and history. The ear is regarded as equally important with the eye in the interpretation of words. When possible, some entire work of an author is read, as it is believed that a more lasting and more satisfactory impression will thus be made on the mind of the student than by the use of selections only. It is a well-established principle in the study and teaching of the ancient languages that they should be made, as far as possible, the basis of a study of antique life. The Greek language embodies the experience of the most remarkable people of antiquity,—a people whose achievements in literature, in the arts, and in government have been, and doubtless will continue to be, inexhaustible sources of profitable instruction. It is here claimed that the study of the Greek language, together with all that should properly be taken in connection therewith, will contribute the most important elements of a liberal education. In our Preparatory Department we have attained the best results by keeping the student to the Attic Greek exclusively. In this way, and we believe in this way only, can he be firmly grounded in the essential forms of the most important of

the Greek dialects. With it as a norm he is best enabled to understand the variations exhibited by the other dialects, even those that are older. Equivalents offered by students who have prepared elsewhere will be recognized and full credit given. The authors read in the college classes vary somewhat from year to year. During 1901-2 the following works were studied: portions of the Iliad; selections from Herodotus, Thucydides, and Xenophon; four orations of Lysias; Jones's Greek Prose; Kitchel's Plato entire; the Gospel of Luke and several of the Pauline Epistles; Euripides's Alkestis and Elektra; Sophokles's Elektra and Oedipus Tyrannus; Aeschylus's Prometheus Bound.

More important, however, than any quantity of text perfunctorily read is a knowledge of the language and a true conception of Greek life and the artistic ideals of the Greeks. The college library is well supplied with works of reference to which every student has access and which he is urged to exploit to the fullest extent. But there are certain indispensable books which he must have at his elbow if he desires to make satisfactory progress and is not content merely to get the lesson for the day. These are a standard Greek Grammar; Goodwin's Moods and Tenses; Liddell and Scott's Lexicon; Peck's Classical Dictionary; a Classical Atlas. Some of these manuals are just as useful for the study of Latin as for Greek.

Students who wish to pursue Greek beyond the prescribed undergraduate course can be accommodated with three exercises per week for three terms, the subject to be studied or the authors to be read to be selected by the professor after consultation with the candidates. In addition to subjects exclusively Greek one term in Greek History, and one term in Comparative Philology may be taken.

LATIN

PROFESSOR EVANS,

Assisted by Several Instructors.

The aim of the required work in Latin covers the following:

1. To teach students of fair ability to read understandingly the Latin authors usually studied in our colleges.

2. To make students familiar with forms and syntax of words and the structure of sentences.

3. To enable students to translate at sight selections from Eutropius, Cæsar, Romæ Viri, and Cicero, and to write the Latin of simple English narratives.

4. To give as complete knowledge, as time permits, of Roman life and manners, customs, and political institutions.

5. To teach the pronunciation of Latin words and the scansion of Latin metres in most common use.

In the whole work the endeavor is to impress on the minds of the students that Latin is the language of a moral and practical people who left their mark on the world in law and government, and that "Rome is the center of our studies and the goal of our thoughts; the point to which all paths lead, and from which all paths start again."

Hand-books: Allen and Greenough's or Gildersleeve and Lodge's or Harkness's Grammar; Myers's Roman History; Harper's Lexicon, Kiepert's wall-maps of the Roman Empire and of various countries; Ginn & Co.'s Classical Atlas; Crutwell's Latin Literature; Gow's "Companion;" Smith's Dictionary of Classical Biography; and Smith and Seyffert's Dictionaries are freely accessible to students for reference in their work.

They have access also to Simcox's Teuffel-Schwabe's (Warr's translation), and Browne's Histories of Latin Literature, and to Guhl and Koner's Life of the Greeks and Romans.

ELECTIVES—TEACHERS' COURSE

1. To prepare students who are preparing to teach to begin their work, there are offered practical exercises in the study of Grammar, including forms, derivation, pronunciation, and syntax of words, and quantity of syllables; writing Latin and translating Cæsar, Cicero, and Vergil. Hand-books: Bennett's and Roby's Grammars.

2. Roman History. A year is given to the history of the Roman people during the Kingdom and Republic, dwelling especially on the development of the Roman constitution, political institutions, and territorial acquisition. No credit



THE CHAPEL

is given in this course unless the whole work is done. Books for study and reference: Epochs of Ancient History; Lanciani's Ancient Rome in the Light of Recent Excavations; The Great Captains — Hannibal — by Dodge; Duruy's and Mommsen's Histories of Rome; Long's Decline of the Roman Republic; and Labberton's Historical Atlas.

3. Classes may be organized to read "The Vulgate," The Hymns of the Church, and The Latin Church Fathers.

MATHEMATICS AND ASTRONOMY

PROFESSOR HOOVER,

Assisted by One or More Instructors.

The course in pure mathematics embraces ten terms, distributed as follows: Algebra, four terms; Geometry, two terms; Trigonometry and Surveying, two terms; Analytic Geometry, one term; Calculus, one term. Of these, four terms, including Algebra to Series and Plane Geometry, are required for admission into the Freshman class; the remaining six terms are included in the College Department, covering the Freshman and Sophomore years.

See also courses of study and electives.

In teaching the pure Mathematics, especial attention is directed to the value of the study as a means of training the logical faculties. Constant stress is laid upon the steps of reasoning which underlie the various processes; and it is insisted that the principal business of the college student of Mathematics is to apprehend these clearly.

Power to apply the principles is tested by a wide range of exercises drawn from various sources, and adapted to the capacity of the student.

A part of the Spring Term in the Freshman year is devoted to the subject of land surveying and to other applications of Trigonometry. This work is important as giving good examples of the utility of mathematical science and its practical applications. The department is in possession of an excellent set of surveying instruments, including a transit, level, rod, and other necessary appurtenances. These are in frequent use by the students.

ELECTIVES — In this department the following electives are offered: Theory of Equations; Analytic Geometry of Three Dimensions; Differential Equations; Statics and Dynamics; Elliptic Functions; Spherical Harmonics; Quaternions; Determinants; Mathematical Optics; Least Squares; and Astronomy.

RHETORIC AND ENGLISH LITERATURE

PROFESSOR CHUBB.

ASSOCIATE PROFESSOR WILSON.

The aim of the English Department is two-fold, to train the power of expressing thought, and to cultivate an appreciation of literature. In the classes in Rhetoric the main stress is placed upon the actual work in composition done by the student. In the study of Literature the endeavor is to quicken the artistic and æsthetic sense.

The Library is the laboratory of the English Department. In the study of an author different students are assigned different works for reading. Each student then reports, sometimes in an address, sometimes in an essay, upon the results of his reading.

When studying Literature emphasis will also be placed upon the practice of composition, and in the classes in Rhetoric much attention will be given to the study of Literature.

Preparatory to College English, the student must have a thorough knowledge of Grammar, and must have completed the following six terms' work or an equivalent:

FIRST TERM — Composition and Rhetoric.

SECOND TERM — American Literature — selections from Irving, Bryant, Whittier, and Poe.

THIRD TERM — American Literature continued — selections from Johnson, Wordsworth, Macaulay, George Eliot, and Holmes.

FOURTH TERM — English Literature — selections from Shakespeare, Milton, Burke, Addison, and Dryden.

FIFTH TERM — English Literature continued — selections from Johnson, Wordsworth, Macaulay, George Eliot, and Coleridge.

SIXTH TERM — Composition and Rhetoric completed.

THE AMOUNT OF COLLEGE ENGLISH REQUIRED FOR GRADUATION

For the B. S. degree, 105 hours' credit.

For the A. B. degree or B. Ph. degree, 149 hours' credit.

For the B. Ped. degree, 196 hours' credit.

COLLEGE COURSES

1. TENNYSON — A study of the Idyls of the King. and some of the shorter poems. Three hours. (Required for all degrees.)

2. SHAKSPERE — Julius Cæsar, Macbeth, King Lear, Richard III. These plays will be studied in class. In addition four comedies will be assigned for cursory reading.

Four hours (Sophomore required for all degrees.)

3. COLLEGE RHETORIC — In this work the stress is placed upon paragraph-writing. Three hours (required for all degrees.)

4. 19TH CENTURY PROSE LITERATURE — Ruskin, Carlyle, and Arnold are studied in class. Four hours (required.)

5. BROWNING — Three hours (senior elective.)

6. THE ENGLISH BIBLE — This course is offered by several professors. It is open to all. One hour. Given each term.

WINTER TERM

7. EMERSON AND LOWELL — The poetry of Lowell and the prose of Emerson. Three hours (Freshman elective.)

8. SHAKSPERE — Hamlet, Othello, The Tempest, and As You Like It, and in addition four plays will be assigned for cursory reading. Four hours (Sophomore elective.)

9. PUBLIC SPEAKING AND ARGUMENTATION — This course is to give a training in public speaking, special stress being placed upon argumentation. It is not intended to be a course in formal logic, but a study of the principles of argumentation as used in every-day life. Each student will appear at least once during the term in a public debate given in the University Auditorium. Baker's Principles of Argumentation is the text used in connection with the study of specimens of argumentation. Open to all who have taken Course 3. Three hours.

10. CRITICISM — The Analytics of Literature. Three hours (Senior elective.)

SPRING TERM

11. BYRON, KEATS, AND SHELLEY — Three hours (Freshman elective.)

12. CHAUCER — Four hours (Sophomore elective.)

13. HISTORY OF ENGLISH LITERATURE — A text is studied and each member of the class makes a special study of a topic assigned. Four hours (Junior required.)

14. WORDSWORTH — Two hours (Senior elective.)

15. MILTON — This course will alternate with 14.

(In 1903, Wordsworth will be studied.)

HISTORY, ECONOMICS, AND POLITICAL SCIENCE

PROFESSOR HIGLEY.

MODERN EUROPEAN HISTORY

The growth and development of the great nations of the present time will be studied. Especial attention will be given to the countries of modern times whose history is closely connected with that of the United States. The evident decline of some of the nations of modern Europe will be noted and an attempt will be made to find the reasons therefor.

Some time will be devoted to a study of China and Japan.

Fyffe's "Modern Europe," "World Politics," by Paul Reinsch, Noble's "Russia and the Russians" and the standard text-books on English and French history will be used in 1902-1903.

UNITED STATES HISTORY

The importance of the study of United States History in preparing citizens to exercise the duties incumbent upon them as members of the body politic is growing more apparent every

year. Therefore the aim of the teaching in this department is so to read the history of the past as to throw light upon present civic and economic problems, and thus aid in their solution. The disciplinary value of the subjects included in this department is kept constantly in view. History is regarded as a record of the social, economic, moral, and political life of the people. Environment, former ideas, and changing industrial conditions are all considered as important factors in determining the course of events. The work of our great leaders in thought and action is studied carefully in connection with the history of the people. Students are encouraged to investigate the civic and economic questions of the present day with minds as free as possible from partisan prejudice and preconceived opinions.

The standard books in Civics and Economics are studied, and the views therein expressed are freely discussed in the class-room. Government publications, magazine articles, and other valuable material are read for the purpose of obtaining all the light possible upon the subject under discussion as well as to broaden the mental vision of the student. The work for the year 1901 and 1902 was as follows:

PREPARATORY UNITED STATES HISTORY—REQUIRED

FIRST YEAR: FALL TERM — History of the United States, three hours per week.

WINTER TERM — History of the United States, four hours per week.

SPRING TERM — Civil Government, five hours per week.

COLLEGIATE HISTORY—ELECTIVE

FALL TERM — The Colonial Period and the Formation of the Union, four hours.

WINTER TERM — The Period of Slavery Agitation, four hours.

SPRING TERM — The Civil War and the Reconstructed Nation, four hours.

The Epochs of American History will be used as guides in the study of the above courses.

SPECIAL ELECTIVES

FALL TERM — History and study of the Constitution of the United States, three hours. The Territorial Expansion of the United States, two hours.

WINTER TERM — Immigration and its Effects upon this country, two hours. Tariff Legislation in the United States, two hours.

SPRING TERM — The History of Political Parties, three hours.

In the Special Electives, the Madison Papers, The Federalist, Poore's Constitutions and Charters, American State Papers, Reports of Directors of the United States Mint, the Congressional Globe and Record will be used in connection with the standard histories. The volumes of Bancroft, Rhodes, Von Holst, Schouler, Pitkin, and the American Statesman series are constantly at hand for reference. Hamilton's, Jefferson's, Adams's, Clay's, and Calhoun's works are always accessible and often used.

POLITICAL ECONOMY

FALL TERM — The Elements of Political Economy, Part I, three hours.

WINTER TERM — The Elements of Political Economy, Part II, three hours.

The work outlined above is required in the Collegiate Department. Laughlin's book will be the text used. The fundamental principles of the subject will be studied in the first term, followed in the second term by their practical application to the questions of to-day.

ELECTIVE ECONOMICS

WINTER TERM — Advanced Economics, three hours.

SPRING TERM — Money and Banking, 3 hours.

Hadley's Economics will serve as a text-book in the winter term. F. A. Walker's Political Economy and Marshall's Principles of Economics will be used as references.

"Money and Banking" by Horace White will be used as a text in the work of the second term.

PHILOSOPHY AND PEDAGOGY

PROFESSOR DOAN.

It is the policy of this Department to teach all the subjects under its direction from the normative point of view. While exact scientific description and explanation are a constant aim in any given course, yet these scientific results are considered chiefly valuable in their practical or normative consequences. Thus in the courses in Ethics norms of *right* living, in the courses in Logic norms of *right* thinking, and in the courses in Pedagogy norms of *right* teaching are the constant aim. It is obvious that none of these results could be attained independently of a careful analysis of the human mind with its natural processes. Psychology therefore is in the estimate of the Department the final court of appeal in those instances where a conflict between these various ethical, logical, or pedagogical norms seems imminent. Thus it will be seen that it is the primary aim of the Department to give the student a consistent view of life and that all the work of the Department is planned to contribute to this end.

It is also the policy of the Department not to neglect the professional side of its field by an exclusive emphasis of the above practical aspect. Each year advanced work is offered in Philosophy and Pedagogy aiming to yield a professional interest in these subjects. The nature of these advanced courses is determined from year to year by the existing needs of the students.

COURSES OF STUDY

FALL TERM

1. ETHICS — (Elective.) Three hours per week.

The purpose of this course is two-fold: 1st, the general definition of ethical concepts, as "conduct," "motive," "duty," "right and wrong;" and 2d, the application of these concepts in the life of the individual.

This course does not presuppose a technical knowledge of psychology and is offered especially as a Sophomore elective. The work may be continued throughout the year, if desired. Text: Mackenzie's "Manual of Ethics."

2. **PSYCHOLOGY** — (Junior required.) Three hours per week. Text: James's "Psychology" (Briefer Course.)

3. **PHILOSOPHY** — (Elective.) Three hours per week.

During the year 1901-'02 the students in this advanced course made a special study of leading philosophical systems and movements. In the Fall Term (1901) the subject under investigation was "Greek Philosophy and its Effect upon Modern Thought." Weber's "History of Philosophy" was taken as a guide. References: Zeller, Benn, Ueberweg, Erdmann, and others.

4. **PEDAGOGY** — (Elective.) Three hours per week.

Special courses of lectures and assignments of library work will be provided for those students who have had the preparatory training and who desire more advanced preparation for teaching.

WINTER TERM

1. **ETHICS** — (Elective.) Sociology or Social Psychology. Three hours per week.

Continuation of Course 1, Fall Term. This work is intended to supplement the individualistic point of view assumed in the course during the Fall Term. Text to be announced later.

2. **PSYCHOLOGY** — (Required.) Three hours per week.

Continuation of Course 2, Fall Term.

3. **PHILOSOPHY** — (Elective.) Three hours per week.

Continuation of Course 3, Fall Term.

4. **PEDAGOGY** — (Elective.) Three hours per week.

Special work will be provided as above under Course 4, Fall Term.

5. **LOGIC** — (Required.) Four hours per week.

Text: Jevons's "Lessons in Logic." The class-work will be supplemented by weekly reports.

6. **PEDAGOGY** — (Required in the Pedagogical Course.)

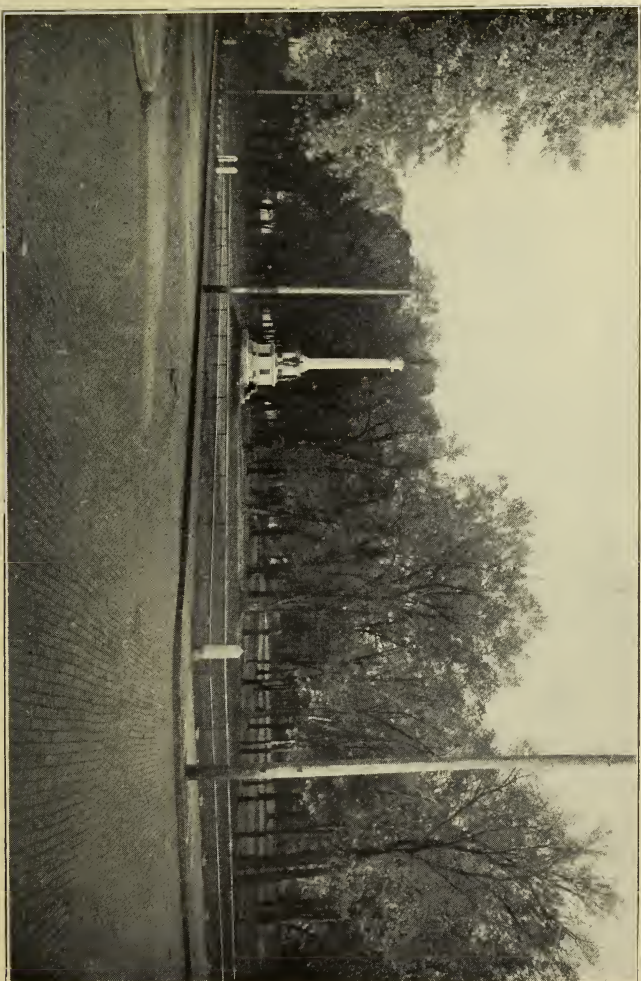
Four hours per week.

Text: Davidson's "Education of the Greek People."

SPRING TERM

1. **ETHICS** — (Elective.) Three hours per week.

The purpose of this course is to complete the student's moral outlook by some larger world-theory which shall in-



FRONT VIEW OF UNIVERSITY CAMPUS

clude both the individual and the social phases of ethical theory which were the concern of the Fall and Winter terms respectively.

2. PSYCHOLOGY — (Elective.) Three hours per week. Comparative Psychology.

A comparison of the psychic life of man with that of lower organisms. The evolutionary point of view will be elaborately defined in its bearing upon psychological theory.

3. LOGIC — (Elective.) Three hours per week.

Text: Mill's "Logic."

4. PEDAGOGY — (Elective.) Three hours per week.

Special work will be provided as above under Course 4, Fall and Winter terms.

5. PEDAGOGY — (Required in the Pedagogical Course.) Four hours per week. Advanced History of Education.

This course will take Quick's "Educational Reformers" as a guide. Library investigation of special systems and movements is required.

6. PEDAGOGY — (Required in the Pedagogical Course.) Four hours per week. Science of Education.

Text: Laurie's "Institutes of Education."

SPECIAL COURSES

The above courses represent the work regularly offered by the Department. To meet special needs the Department has, from time to time, introduced special lines of investigation. The following may be mentioned: (1) Philosophy of Mind; (2) The Theory of Evolution; (3) Comparative History and Philosophy of Religions; (4) Abnormal Psychology.

BIOLOGY AND GEOLOGY

PROFESSOR MERCER.

G. F. LAMB, *Assistant*.

This Department embraces all the subjects properly belonging to Biology, together with Inorganic and Organic Geology.

The work in Zoölogy begins with the second year of the Preparatory Course, and, the subject being assigned to the Fall Term, abundant opportunity is offered for field work. In addition to the material gathered by the class, use is made of preserved marine types which are received from time to time for the purpose of dissection. Each student is required, also, to spend some time in the Zoölogical Museum, which contains many valuable specimens.

The student enters the laboratory at the very start, and such types are placed before him for examination and dissection as will lead him step by step, to correct habits of observation, by which he is enabled to comprehend the close relations of one form of life to another. As this work is in progress, the subjects under examination are fully discussed, and, on the completion of each dissection, the student is examined upon the work done. Drawings are required of the different parts and organs, in all cases. After a few types have been studied in the laboratory the subject of classification receives careful attention.

An advanced course in Zoölogy is offered in the college proper, and a scholarship has been established which insures free tuition and laboratory privileges at the Marine Biological Laboratory, Cold Spring Harbor, Long Island, to the student in this Department doing the highest grade of work. The importance of the advantages thus secured cannot be overestimated, as the student is given abundant opportunity to study marine life amidst its proper environments. He will, to this end, be expected to assist frequently in dredging, for which a naptha launch is provided.

The course in Preparatory Physiology aims to give a good general knowledge of Anatomy and Hygiene, and the functions of the different organs. Occasional dissections are performed before the class, and some laboratory work is required of all. In the collegiate course this subject is studied by more advanced methods. Osteology receives close attention, and each student is expected to give some attention to dissection, besides making a practical study of a few histological structures. Physiological principles and theories are discussed according to the latest investigations; and, in this connection, experiments are performed in the laboratory. The department is supplied with a valuable skeleton

and superb French anatomical models. (For more advanced work in Anatomy and Physiology, see Preparatory Medical Course.)

Elementary Botany is required in all the Preparatory courses except the classical. Work begins with an observational study of germinating plantlets, all students being required to sow the seeds of several representative plants and to make careful drawings of the different stages of growth. Leaves, roots, and stems are studied from the objects as far as practicable, and careful dissections of certain typical flowers precede the regular work of Systematic Botany. As time permits, the student is given some insight into the microscopic structure of plants by practical work in the laboratory. An herbarium of not less than forty plants will be required of all, or an equivalent in laboratory work. In the collegiate course the student is set to work at once with the microscope, the object being to secure a knowledge from actual observation of the general anatomy and physiology of plants. This is followed by work upon the Cryptogams, and all will be encouraged to make some special investigations for themselves.

The University is thoroughly equipped for work in General Biology, a required subject in all the collegiate courses. A biological laboratory has recently been completed and fitted up with modern apparatus, including a steam sterilizer, fine optical appliances, dissecting instruments, water bath, paraffin bath, CO² freezer, Minot Microtome, etc. The student is given practical training in Microscopy, and is taught the process of staining and preparation of permanent mountings. It is the intention to give a thorough knowledge of the structure and mode of growth of typical plants and animal forms, and the laboratory work is accompanied with lectures, in which the composition of organisms, methods of reproduction, development, and other biological subjects are discussed.

At an early stage of the work in Geology, such objective study of minerals is pursued as will enable the student to comprehend the composition of rocks, which is next taken up. To supplement the text, lectures may be given from time to time upon Dynamical, Structural, and Paleontological Geology, and these subjects are further studied in the field. Work is also offered in Determinative Mineralogy. A large

cabinet of minerals is open at all times to the student of Geology.

The stereopticon is in constant use in the Department to illustrate the lectures. The facilities for making lantern slides are such that many additions are made annually to the already quite complete set of over eight hundred slides.

WORKS OF REFERENCE—Parker & Haswell, Text-book of Zoölogy, Schafer, Text-book of Physiology, Marshall & Hurst, Practical Zoölogy, Stewart, Manual of Physiology, Bessey's Botany, Goodale's Physiological Botany, Gray's Structural Botany, Wolle's Diatomaceæ of N. A., and Desmids of the U. S., Strasburger's Manual of Vegetable Histology, Goebels Outlines of Classification and special Morphology, Vine's Physiology of Plants, DeBary's Comparative Anatomy of Phanerograms and Ferns, Huxley's and Martin's Biology, Sedgwick and Wilson's Biology, Packard's Zoölogy, Lang's Vergleichende Anatomie der Wirbellosen Thiere, Landois's Physiology, Stirling's Histology, Piersol's Histology, Shafer's Essentials of Histology, Carpenter's The Microscope, Frey's Microscopical Technology, LeConte's Elements of Geology, Dana's Manual, Dana's Mineralogy, Crosby's Mineralogy, Lyell's Principles of Geology, Geikie's Text Book of Geology, and Government Reports.

COURSE I

FALL TERM—Physical Geography.

WINTER TERM—Elementary Physiology.

SPRING TERM—Elementary Botany.

This course is required of all preparatory students five hours per week for the entire year.

COURSE II

FALL TERM—Invertebrate Zoölogy.

WINTER TERM—Invertebrate Zoölogy.

SPRING TERM—Botany.

The work of the Fall Term is required of second-year preparatory students five hours. Collegiate students may elect the Winter and Spring term's work.

INVERTEBRATE ZOOLOGY—The course in Zoölogy takes up the study of animal life in the line of development, beginning

with the amoeba and tracing the line by means of type forms through the succeeding orders to the vertebrates.

BOTANY — Study begins with the plant cell and traces the development of the plant through the successive orders to the flowering plants. Attention will be given to living plants, including plant physiology, and a general consideration of all the life principles involved in plants.

Four hours are allowed for each of the Winter and Spring terms.

COURSE III

FALL TERM — Osteology.

WINTER TERM — Anatomy.

SPRING TERM — Physiology.

The work of the Fall Term is elective for all college classes, the Winter and Spring terms are required of Sophomores.

Course I and the Fall term of Course II, or their equivalent are required for entrance to this course. Four hours are allowed in each course.

ANATOMY — The course in Anatomy will consist of two lectures or recitations one hour each and two laboratory sections of two hours each every week of the term. The laboratory work will be mainly dissection of the cat or rabbit and the study of microscopic sections of all the important organs.

PHYSIOLOGY — The course will consist of at least two lectures or recitations one hour each and two laboratory sections of two hours each, every week of the term. This will be a course of actual demonstration of the functions of the different organs of the body. For example, the student actually tests the action of the reagents found in the gastric juice upon the food principles. He then uses the gastric juice prepared from the stomachs of different classes of animals, and tests their action upon different foods, the changes thereby being brought before the eye.

COURSE IV

FALL TERM — Histology.

WINTER TERM — Histology and Bacteriology.

SPRING TERM — Histology and Embryology.

This course is elective for Juniors. Four hours in the Fall Term, three hours each in Histology and Bacteriology in the Winter Term, and three hours each in Histology and Embryology in the Spring Term are allowed.

HISTOLOGY—This course includes a careful study of technic; taking fresh tissue and carrying it through to the finished slide by the most approved and modern methods. The student also makes a study of the finished slide and makes drawings of many type tissues. This course is designed thoroughly to fit the student preparing for the study of medicine, as well as to give the student in general a thorough idea of the structure of the human body preparatory to the study of physiology.

Two lectures or recitations of one hour each and two laboratory sessions of two hours each every week throughout the year are required.

BACTERIOLOGY—This course is mainly one of technic. The student prepares all the common media, inoculates specimens of many of the different forms of bacteria and studies the growth and action of the same. He also gets a fair idea of the methods of identification of common forms, making slides from the cultures.

Three laboratory sessions of two hours each throughout the term are required.

EMBRYOLOGY—In this course the student follows carefully the development of the chick, makes slides of the embryo at different ages from four hours up to seventy hours, and prepares museum specimens of the chick from that to twenty-one days. He supplements his work with careful reading and comparisons with the development of the mammal, and makes dissections of a fetus of pig or cow.

One lecture or recitation of one hour and two laboratory sessions of two hours each are required every week of the term.

COURSE V

FALL TERM — } Paleontology } or Botany.
 } Geology }

WINTER TERM — Cytology.

SPRING TERM — Plant Histology.

The work of the Fall Term is required of Seniors. Courses I, II, III, and IV, are required for entrance to the Winter and Spring terms' work of this course. Four hours are allowed in each course.

COURSE VI—ENTOMOLOGY

This course is a four-hour elective course for all college classes. The course is given only during the summer term.

It is designed to be one of Nature Study. Insects will be the basis of study. The plants associated with the insects will be studied and their relations pointed out. The anatomy of the insect will be studied from the locust, dissections being made by the students.

Two lectures or recitations or field trips will be made; and two laboratory sections of two hours each will be held each week of the term. The course will be strictly scientific while the plan will be to adapt it to the wants of public school teachers. It is designed to create an interest among the teachers in nature study, in order that they may stimulate to better advantage, the observing powers of the pupils who come under their instruction. Collections of insects will be made and classified, thereby gaining the required knowledge to make a private collection or one for each public school.

PREPARATORY MEDICAL COURSE

It is desirable in many cases that students looking forward to the medical profession should, after spending four years in collegiate work, be admitted to advanced standing in medical schools, whereby a year's time may be gained. With this object in view, the Department of Biology now offers such work as is, in conjunction with Physics and Chemistry, recognized by the best of these schools the full equivalent of a year's professional study. The Departments of Physics and Chemistry furnish abundant opportunities for the work required in that direction. The biological work is, from the very outset, suited to the needs of the medical student. To this end it properly begins with General Biology, to be followed by a comparative study of animal forms and of phaner-

ogamic and cryptogamic plants. The development of some vertebrate is closely studied, and preparations of embryos are required of each student. Throughout the course close attention to laboratory work is insisted upon. Practical instruction is given in the preparation of microscopic objects, and the student is taught the technique of section cutting and mounting. A practical knowledge of Human Anatomy is obtained from the careful dissection of some mammal, the many resemblances to the anatomy of man, and the few differences, being continually referred to. Arrangements have been made whereby students of the University are allowed, under certain conditions, to attend post-mortem examinations and to assist in the work. The laboratory is provided with modern apparatus for accurate investigation of disease germs, and the student is therefore required to do practical work in the all-important subject of Bacteriology.

The graduate completing this course may receive credit for one year's work in the regular course of study at the Medical College of Ohio, Starling Medical College, Columbus, and other medical schools; and also will be admitted into the second year of the four-year course of study in the Medical department of the University of Pennsylvania and Jefferson Medical College, upon presentation of a certificate signed by the professor in charge.

Among the works of reference to be found in the library may be mentioned Gray's Anatomy, Quain's Anatomy, Holden's Anatomy, Landois and Sterling's Physiology, Hertwig-Mark's Text-book of Embryology, Lehrbuch der Vergleichenden Entwicklungsgeschichte (Korschelt & Heider), Minot's Human Embryology, Ziegler's General Pathology, Stoehr's Histology, Von Kohlden's Pathological Histology, Korschelt & Heider, Text-book of Embryology of the Invertebrates, Wilder and Gage's Anatomical Technology, Wiedersheim's Comparative Anatomy, Sternberg's Bacteriology, and standard tests and guides in Histology. The following subjects are comprehended in this course: General Biology, Zoölogy, Mammalian Anatomy, Human Anatomy, Histology, Physiology, Structural and Systematic Botany, Vegetable Histology, Embryology, and Bacteriology.



VIEW FROM CAMPUS LOOKING TOWARDS WOMEN'S HALL

PHYSICS AND ELECTRICAL ENGINEERING

PROFESSOR ATKINSON.

GEO. E. McLAUGHLIN, *Engineer*; N. R. CUNIOUS, *Draughting*; GEO. H. LAPP, *Laboratory*.

1. ELEMENTARY PHYSICS — This work is required in the first and second terms of the third Preparatory year in all the courses of study. Recitations three times a week; laboratory work four hours a week; lecture on laboratory work once a week. A laboratory fee of fifty cents a term is charged. The laboratory course will be required of all high-school graduates and others who have not had its equivalent. Carhart and Chute is used as a text-book.

2. GENERAL PHYSICS — This course is required throughout the Junior year of the Scientific course, and is open as an elective to students in other courses provided they have the preparations required of students regularly in this course. In all cases the course in General Descriptive Chemistry, or its equivalent, must precede this course in Physics. Hereafter, also, a knowledge of Analytical Geometry and Calculus will be required. The instruction consists, first, of class work, with experimental demonstrations; second, of individual laboratory work of an advanced character. As an outline of class work, Hastings and Beach will be used, though references to numerous works on Physics, particularly on special subjects in Physics, will be given as supplementary to the text. The laboratory portion of the work will be adapted to the requirements of Junior students and will presuppose the work in Course I, or its equivalent. Recitations three times a week, laboratory four hours a week. Ames & Bliss, Nichols, Stewart and Gee, and other authors are used as laboratory references.

3. PHYSICAL LABORATORY — This will be a special elective course in heat and light, open to those who have already had 1 and 2.

4. PHYSICAL LABORATORY — This is elective, and will be open on the same terms as 3. The course consists of exact measurements in electricity and magnetism. A very excellent special laboratory is now used for the work of this course, and the aim is continually to improve the facili-

ties. Nichols, Stewart and Gee, Kempe, Carhart and Patterson, Stine and Ayrton will be used as references. Class work twice a week. Laboratory six hours a week during second term.

PHYSICAL LABORATORY — This is an elective course given in the third term, consisting of a study of dynamo electric machines to the end of determining and plating their characteristics, efficiency, regulation, etc. Lectures twice a week. Laboratory six hours a week.

The fee for laboratory privileges is fifty cents a term.

ELECTRICAL ENGINEERING

The rapid development of electricity for the purposes of light and power, and its general introduction into all forms of industry, have created a demand for men well-qualified in this branch of engineering. The profession now offers excellent opportunities to young men, and the field is so broad that the chances for rapid promotion are very flattering to those properly qualified. The thoroughly educated man who combines practical experience with his theoretical knowledge of electricity and magnetism is in special demand; for many now engaged in this work are poorly fitted for its duties. The University does not lose sight of the fact that mind training is its chief business. Yet it is the guiding principle of this Department that the education of the mind is none the less efficient for making use of the materials for this purpose which may at the same time be applied by the trained mind to earning a livelihood. We hold that, instead of being opposed, these two features are correlative.

The University possesses an excellent incandescent lighting plant, used for lighting the buildings and campus, with the design of extending to the student practical training in the construction, operation, and care of electrical and steam machinery. The plant is modern in all its parts, and meets our present requirements for light and power quite satisfactorily. Very extensive additions to the electrical equipment have been made recently. Both direct and alternating currents are used. The switches and fittings on the boards, wiring and general installation are all the work of students. Modifications and extensions from time to time give others

excellent opportunities to obtain valuable practice. This practice also includes dynamo and engine tests, attaching indicators, obtaining and interpreting cards, valve setting with and without the indicator, etc.

The electrical profession requires a great deal of mechanical ability and training in the use of tools for both wood and metal. The Department is provided with shops for both, a large forge and lathe room having been recently provided in the basement of Ewing Hall as a further addition to our facilities in this direction. These shops are provided with wood and metal working lathes, and a complement of the necessary tools. Additions to the shop facilities are being made continually. As will appear from the course outlined below, while mastering the use of tools, the student is taught the construction of useful pieces of apparatus for laboratory purposes. The ability thus to construct apparatus and machinery, to preserve the proper relations of the several parts in fitting them together, and in overcoming the difficulties that may arise in embodying one's ideas, has a very great educational value aside from its practical aspect. Each student this year in the second-year course designed and constructed an electric motor or a transformer.

Below is indicated the course of study in this Department. To this is added, however, seminary work with references to the leading treatises on electricity and engineering. Periodicals, such as the American Electrician, Electric World and Engineer, Power, Scientific American and Supplement, Electrical Review, Electricity, Street Railway Journal, and Engineering Magazine, are kept on file easily accessible, and are included in the seminary references. For the practical plant work there is a division of those in this course on duty each night. Each engineer is required to observe the steam pressure, and the load of each machine; attend to the oiling and wiping; keep up the fire and water; care for the pumps, injectors, etc. There is co-operation with the owners of the city arc-light plant, and additional time is spent in learning its care and operation under competent supervision. The State Hospital has a model incandescent plant which is also utilized in instruction. The student in all this work is taught to operate the plant with the object of attaining its

highest efficiency, and to study the greatest economy in the use of all supplies for consumption.

REQUIREMENTS — This work is elective as a whole, and those taking it must pursue the course regularly in its order unless a portion of it has been previously taken. Hereafter no one will be permitted to begin the theoretical portion of the work until he has passed the first and second terms of Algebra as indicated in the second year of the Preparatory course, and has completed the three terms of English marked in the Preparatory course; this includes two terms of Literature and one of Rhetoric. However, those not prepared in these branches may in some cases be permitted to take up the practical portion of the course, including plant practice, shop-work, free-hand and mechanical drawing, while making up this work. The higher branches, Analytical Geometry, Calculus, and Analytical Mechanics are strongly recommended to students in Electricity, though not absolutely essential to this course. Physics and Chemistry are required as indicated. When the regular electrical course and the auxiliary studies are completed, a certificate will be issued showing the character of the work done. Also, where it is deserved, a recommendation will be issued showing the student's ability in theoretical and practical electrical and steam engineering. The course is subject to such changes from time to time as the profession requires, and as the proper treatment of such studies makes necessary.

FIRST YEAR

First Term

PHYSICS — Recitations three times a week. Laboratory four hours a week. Laboratory lecture once a week.

ELECTRIC WIRING — Lectures and recitations on the principles and methods of wiring for light and power; rules and regulations; plans and specifications. Two hours a week.

ELECTRIC LIGHTING — General elementary theory; principles of construction and operation of dynamo-electric machines, systems of lighting, types of machines and practical management. Four hours a week.

FREE-HAND DRAWING — Simple geometric solids, one and two views; outlines of simple geometric solids in perspective. Three hours a week.

SHOP-WORK — Wood-turning, metal-boring, filing and polishing. Four hours a week with no credit.

PLANT DUTY — Operation of college incandescent and city arc stations.

MECHANICAL DRAWING — Simple geometric drawing for neatness and accuracy in the use of instruments; lettering; use of scales. Three hours a week.

MATHEMATICS — Four hours a week.

Second Term

PHYSICS — Recitations three times a week. Laboratory four hours a week. Laboratory lecture once a week.

STEAM — General theory of steam engines and boilers; theory and construction of details; dimensions for required power; theory of valve-gears. Two hours a week.

PRACTICAL ELECTRICITY — Electrical and magnetic calculations. Four hours.

SHOP-WORK — Metal-turning, bolt-cutting and tapping. Four hours a week with no credit.

FREE-HAND DRAWING — Outlines and shaded studies of geometric solids, single and grouped; outline and shaded studies of vase forms. Three hours a week.

PLANT DUTY — Operation and care of college and city stations.

MECHANICAL DRAWING — Descriptive Geometry; copying drawing. Three hours a week.

MATHEMATICS — Four hours a week.

Third Term

ELECTRIC LIGHTING — Discussion of the various distributing systems and lamps. Calculations and practical details. Four hours a week.

DYNAMOS — Theory, calculation, various forms of winding. Details of construction. Four hours a week.

STEAM — Types of engines, governors, and valve-gears; pumps, injectors, indicators, and condensers; compound engines. Two hours a week.

SHOP-WORK — Simple pieces of apparatus, binding posts, switches, etc. Four hours a week with no credit.

PLANT DUTY — Care and operation of college and city stations.

FREE-HAND DRAWING — Three hours a week.

MECHANICAL DRAWING — Projections. Three hours a week.

MATHEMATICS — Four hours a week.

SECOND YEAR

First Term

ELECTRICITY — Lectures with references and recitations upon electrical engineering. Four hours a week.

ELECTRIC RAILWAY — General principles; feeding and return systems; substations and methods of power transmission; railway motors; interurban and heavy service. Four hours a week.

SHOP-WORK — Construction of simple laboratory apparatus. Four hours a week, no credit.

MECHANICAL DRAWING — Working drawings and plans of machinery from actual parts. Three hours a week.

PLANT DUTY — Care and partial supervision of college and city stations; trimming and testing lamps.

SEMINARY — Investigation of assigned topics; written reports. One hour each week.

MATHEMATICS OR CHEMISTRY — Four hours a week.

Second Term

ELECTRICITY — Alternating and polyphase currents. Four hours a week.

ELECTRICITY — Absolute measurements in electricity and magnetism. Class work two times a week. Laboratory six hours a week.

SHOP-WORK — Miscellaneous construction work; design and construction of small motors, dynamos and transformers. Four hours a week, no credit.

MECHANICAL DRAWING — Same as preceding term. Three hours a week.

PLANT DUTY — Same as preceding term.

SEMINARY — Same as previous term. One hour a week.

MATHEMATICS OR CHEMISTRY — Four hours a week.

Third Term

ELECTRICITY — Testing dynamos for characteristics, efficiency, and regulation. Lectures two times a week. Laboratory six hours a week.

ELECTRICITY — Electrical transmission of power. Four hours a week.

LAMP TESTING — Testing arc and incandescent lamps for candle power and efficiency. Two hours.

SHOP-WORK — Same as previous term.

MECHANICAL DRAWING — Same as last term. Three hours a week.

PLANT DUTY — Same as preceding terms.

SEMINARY — Same as preceding term. One hour per week.

MATHEMATICS OR INDIVIDUAL INVESTIGATION — Four hours a week.

For the present there will be a charge of fifty cents a term for each laboratory course, and students will be held responsible for all breakage and damage. The charge for students in electrical engineering will be five dollars a term, the regular contingent fee. Those who are not electrical students, but who wish to take mechanical drawing, may do so on payment of one dollar per term in addition to the contingent fee.

Any one wishing to spend less than two years will be required to pursue the course regularly as far as he goes. New light is given and new opportunities appear very often after one year spent in the pursuit of this work. Inquiries concerning the course will receive prompt attention.

CHEMISTRY

PROFESSOR BENTLEY.

E. V. TUTTLE, *Assistant*.

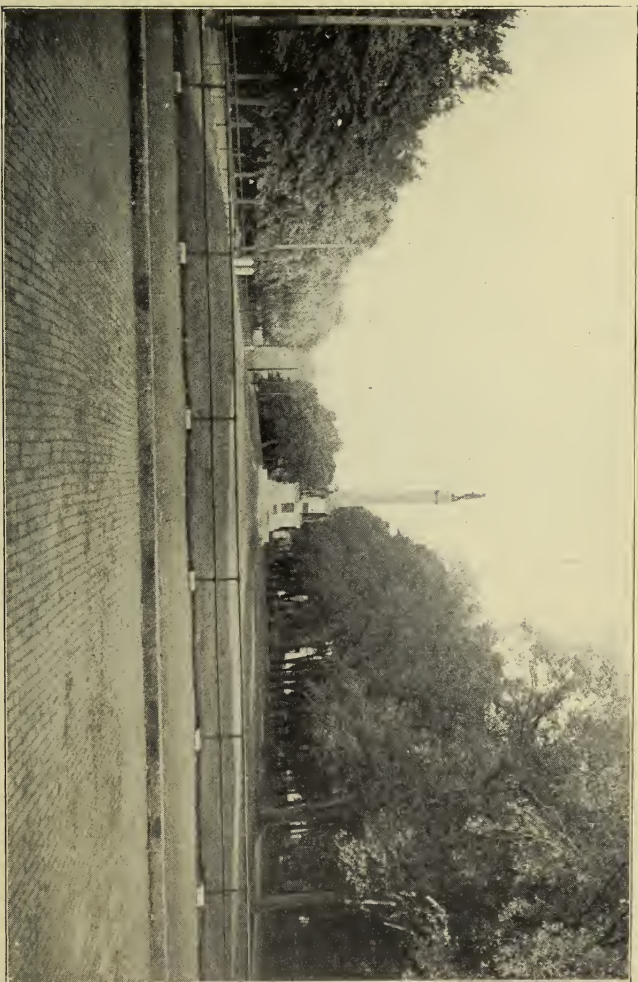
The aim of the Chemical Department is two-fold. It offers to the general student the opportunity of becoming acquainted with the general principles of this science and gives him practice in some of the methods used in the chemical laboratory. To a smaller number of students the Department offers superior facilities for more advanced work both theoretical and practical, organic as well as inorganic. In the room recently equipped for advanced work every convenience is supplied. The Department is also accumulating a library of reference books which will meet the requirements of the students who make chemistry their special field for work.

COURSES

1. GENERAL DESCRIPTIVE CHEMISTRY — This course consists of three lectures or recitations and four hours laboratory work per week during the Fall and Winter terms. The lectures will be illustrated with experiments and with stereopticon views on applied chemistry. In the laboratory the student will study the preparation, properties, and reactions of the various elements and compounds considered. This course required no special preparation, and it or an equivalent must precede all other courses in chemistry. It is required of Sophomores in the A. B. and Ph. B. courses and for Freshmen in the B. S. course.

Newth's Inorganic Chemistry or Remsen's College Chemistry is recommended as a reference book for students in this course.

2. QUALITATIVE ANALYSIS — A laboratory course of three hours per week for two terms is offered. The first term's work may be done at the same time with the second term of Course 1, or by doubling the working time the whole work may be done in one term. The student will become familiar with the tests applied for the identification of bases and acids in insoluble as well as in soluble substances.



MONUMENT PLACE, UNIVERSITY CAMPUS

3. ORGANIC CHEMISTRY — A short course in this subject will be offered for the Fall term and will consist of three recitations per week. The course will give a general knowledge of the subject. Laboratory work in organic preparations may be arranged for if desired.

THEORETICAL CHEMISTRY — This course will consist of three recitations per week during the Winter term. It will supplement the theoretical work done in Course 1, and will give the student some acquaintance with the more recent developments in theoretical chemistry. Course 4 should be preceded by Courses 1, 2, and 3.

5. ELECTRO-CHEMISTRY — Three recitations per week are given in the Spring term. This course is a continuation of Course 4 and should be preceded by it. Le Blanc's Electro-Chemistry will be used as a text-book.

6. QUANTITATIVE ANALYSIS — A laboratory course, the equivalent of three hours per week, for three terms, is presented. The course will give practice in all the more general methods of quantitative analysis, both gravimetric and volumetric. It should be preceded by Course 2, but may be taken in conjunction with it.

7. ADVANCED PRACTICAL CHEMISTRY — There is a laboratory course equivalent to three hours per week to be devoted to such work as the student may elect. This course follows Course 6.

8. TECHNICAL CHEMISTRY — This course will consist of lectures, recitations, and reports by the students. It will be shaped to suit the wishes of the class and will secure a credit of three hours per week. This course will be open only to those who have taken Courses 1 to 6 inclusive or their equivalents.

MODERN LANGUAGES

PROFESSOR TAUSCH.

The entire course covers a period of three years. The first two years are required of all students in the Philosophical and Scientific courses. During the third year, critical reading with conversation and weekly composition is offered.

PREPARATORY GERMAN

FIRST TERM — Grammar with reading and recasting the parables of the New Testament, five hours a week.

SECOND AND THIRD TERMS — Grammar with reading and recasting a Beginner's Reader, five hours a week.

COLLEGIATE GERMAN

FIRST TERM — Modern narrative prose, four hours a week.

SECOND TERM — Modern Lyrics and Ballads, four hours a week.

THIRD TERM — Historical prose, four hours a week.

Weekly papers are written to accustom the student to using the language independently.

ELECTIVE GERMAN

FIRST TERM — A study of Goethe's Faust, two hours a week.

SECOND TERM — A study of Schiller's Wallenstein, two hours a week.

THIRD TERM — Scientific German, two hours a week.

Conversation and writing weekly papers accompany the study throughout the year.

FRENCH

The course in French is required of all students in the Philosophical and Scientific courses.

FIRST TERM — Grammar with reading and recasting the parables of the New Testament, four hours a week.

SECOND AND THIRD TERMS — Grammar with reading and recasting a Beginner's Reader, four hours a week.

ELECTIVE FRENCH

FIRST TERM — Modern narrative prose, two hours a week.

SECOND TERM — Selections from the French drama, two hours a week.

THIRD TERM — Scientific French, two hours a week.

ELECTIVE SPANISH

FIRST TERM—Grammar with reading and recasting the parables of the New Testament, three hours a week.

SECOND AND THIRD TERMS—Grammar with reading and recasting a Beginner's Reader, three hours a week.

Students who wish to pursue the study of German, French, or Spanish beyond the requirements for undergraduates can generally be accommodated.

DRAWING AND PAINTING

MARIE LOUISE STAHL, *Instructor.*

The proper object of the study of drawing is so often misunderstood that many regard it as entirely superfluous, whereas there is nothing that will lead to a broader culture and to a more thorough training of the faculties—a training so important in any occupation. Cultivating one's powers of observation, thinking and acquiring skill in the use of charcoal or pencil—the three things primarily obtained by the study of drawing, are of practical importance to every one.

Perspective is taught from such objects as chairs, tables, interiors, etc., and varies the work from still life and casts with which the studio is well equipped. Any individuality in the student is encouraged, and no fixed methods insisted upon. In painting, instruction is given in oils, water colors, pastels, and china for which a kiln has been provided. Some knowledge of form, proportion, and mass of light and shade is necessary through the study of charcoal drawing before the student can begin to paint. Instruction in out-of-door work will be given to those desiring it who are sufficiently advanced.

Several of the best art periodicals are kept in the studio, to which the students have access. Talks on art subjects will be given and several large collections of reproductions of masterpieces will be exhibited during the year.

COLLEGE OF MUSIC

PROFESSOR JAMES PRYOR McVEY, DIRECTOR.

*Voice and Piano.*MARGARET EDITH JONES,
*Piano, Voice, and Harmony.*NELLIE H. VAN VORHES,
*Piano and Virgil Clavier.*MARGARET ULLOM,
Violin.

This being a College of the University, its students are given the opportunity to acquire a liberal education which is necessary for a complete rounding of a musical course. Too much stress cannot be laid upon this peculiar advantage — to the college student, that of the culture and refined taste which must come of the association with a school of music, its recitals, concerts, lectures, etc., — to the student of music, that of the intimate connection with a great seat of learning, having its libraries, laboratories, and lectures, its learned men and its classic traditions.

COURSES OF STUDY

ELEMENTARY WORK

Children should have instruction as early as possible that they may cultivate the talent with which they are naturally endowed. This instruction should be the best since without a good foundation no artistic excellence is possible. Even in the elementary department the pupils appear early in recitals thus acquiring ease and precision.

PREPARATORY WORK

Technique is carefully studied. Care is taken to correct previous habits acquired by poor teaching. Taste and style are cultivated and the student taught to grasp intelligently the composition and ideal of the composer.

NORMAL AND ARTIST DEPARTMENT

For those who expect to teach and those who expect to do concert or other professional work the opportunities offered are excellent. Students of this College of Music have already gone into the different professional fields and have met with success born only of faithful study and excellent training. Special illustrated lectures on the art of teaching will be given and students from the different departments will be chosen to appear before the normal classes.

The sight-singing and choral classes will give helpful training to those who expect to take up choir work or to teach music in the public schools. The frequent students' recitals and concerts, the oratorio or opera given by the College, will afford ample opportunity for those who expect to become professional artists.

COURSE IN PIANO

GRADE 1 — Theory of technique, simple exercises; little studies of Kohler, Gurlitt, Czerny, Loeschorn; elementary pieces by Clementi, Mozart, Gurlitt, and others.

GRADE 2 — Czerny's School of Velocity, studies by Divenoy, Heller, Loeschorn; sonatinas of Mozart, Clementi, Kuhlau; pieces of Reinecke, Gurlitt, Heller, and Schumann.

GRADE 3 — Loeschorn Studies, op. 67; Czerny School of Velocity; Bach's Inventions (two-voice); Trill Studies of Krause; Octave Studies by Jean Vogt or Kullak; Easier Studies of Cramer; Sonatas of Haydn, Mozart, Beethoven; pieces by Lack, Godard, Chaminade.

GRADE 4 — Studies by Cramer; Octave Studies of Wolff; Daily Studies, Czerny; Bach Inventions (three-voice); Sonatas, Mozart, Dussek, Beethoven; Selections from Mendelssohn, Chopin, Shubert, Schumann, Raff, Scharwenka, Godard, Chaminade, Leschetizky, Tchaikowsky, and others.

GRADE 5 — Clementi's Gradus ad Parnassum, Tausig's daily exercises, Mason's Touch and Technic, Bach's Well-tempered Clavichord, Chopin Studies, Henselt Studies, Sonatas of Beethoven; Liszt's Rhapsodies; Compositions of Mendelssohn, Moscheles, Chopin, Rubinstein, Raff, and others.

COURSE IN VOCAL CULTURE

Individual voices differ so widely in their needs that this course can be indicated only in a general way.

GRADE 1 — Lessons in breathing, voice placing, intervals, exercises for blending registers, tone-production (continued throughout the course as needed); Studies by Concone, Vaccai, and others; easy songs by American, English, and German composers.

GRADE 2 — Intervals with portamento, scales, arpeggio, solfeggio; Studies of Concone, Marchesi, English Ballads, Mendelssohn's Songs, Sacred Songs.

GRADE 3 — Scales, arpeggio, turns and trills in more rapid tempo, vocalises of Concone, Marchesi, English, German, French, and Italian songs; more difficult church music.

GRADE 4 — Major and minor scales, chromatic scales, Concone's Fifteen Vocalises, recitative and aria, German, French, and Italian Opera, easier oratorio arias; more difficult songs of Schubert, Schumann, Grieg, Jensen, Liszt, Lassen, Brahms, and others.

GRADE 5 — Bravura and Coloratura singing; difficult concert songs; complete opera and oratorio with traditional rendering; special study of Creation, Redemption, Elijah, Messiah, and the Passion music of Bach.

Students of voice expecting certificates must know enough of piano to play simple accompaniments.

PIPE ORGAN COURSE

Students of organ must have had at least one year's work in piano.

GRADE 1 — Strainer's Organ Primer, Merkel's Organ School, Rink's Second Book; Hymn Playing, Transposition; Theory.

GRADE 2 — Dudley Buck's Studies in Pedal Phrasing, Rink's Third Book; easier church anthems, accompaniments; Harmony.

GRADE 3 — Lemmon's Organ School Part 1, Rink's Fourth Book; pieces by Batiste, Wely, Widor, West, Giulmant, and others; Counterpoint.

GRADE 4—Rink's Fourth Book, Mendelssohn's organ sonatas, Bach's Fugues; accompaniments and Masses, oratorios, etc.; Counterpoint, Canon, and Fugue.

COURSE IN VIOLIN

GRADE 1—Hermann Method—Book 1, Kayser—thirty-six progressive studies Op. 20, (Nos. 1 to 18), Easy Pieces by Dancla, Papani, Bohm, Hermann, etc.

GRADE 2—Hermann Method—Book 2, Schradieck—Finger Exercises, Kayser—thirty-six progressive studies Op. 20 (Nos. 19 to 36), Mazas Etudes Op. 36. Selected pieces for violin and piano.

GRADE 3—Schradieck—Scales, Kreutzer—Etudes, Fiorillo—Etudes, Concertos by Rode, De Beriot, Solos by Alard, Rode, etc.

GRADE 4—Schradieck—Chord studies and double stops, Rode—twenty-four Caprices, Alard—twenty-four Caprices Op. 11, Concertos and solos by Rode, Viotti, De Beriot, etc.

GRADE 5—Bach's Sonatas for violin solo, Schradieck—twenty-four studies Op. 1. Dont Gradus ad Parnassum Etudes et Caprices Op 15, Solos By Wieniawski, Vieuxtemps, etc.

HARMONY AND COMPOSITION

The completion of this course is required of all who expect a certificate in piano, voice, or violin. Text-books will be at teacher's discretion.

GRADE 1—Intervals, definitions, scales, chords in all keys, formation of the chord of the Seventh, resolution of the dominant seventh in all keys, harmonizing given basses, writing from sound, diminished sevenths, resolutions, augmented chords.

GRADE 2—Modulation, suspensions, writing from sound continued, open harmony, passing notes.

GRADE 3—Harmonizing melodies, practical harmony, improvisation, single and double chants.

GRADE 4—Chorals, harmonizing a given soprano, alto, tenor, and bass. Harmony in more than four parts.

A choral club meets once a week for the study of oratorio and opera.

A class in sight-singing meets daily.

Students' recitals are given every two weeks, all the students in turn appearing, at the discretion of the teachers.

Examinations are held at the beginning of each term for admission to the college orchestra.

LANGUAGES

No vocalist is properly prepared for his work who is not able to sing in German and French as well as in English. In this particular the advantages of this school are superior to those of any similar school of music, the University course in these tongues being open to all. Instruction is given also in the pronunciation of Spanish, Hebrew (for synagogue singing), Latin (for Catholic church music), and Italian.

BAND AND ORCHESTRA INSTRUMENTS

Instruction can be had in cornet, clarinet, mandolin, guitar, etc., if desired.

EXPENSES, INCLUDING REGISTRATION FEE

Piano Lessons (two per week) elementary grades.....	\$12 00
Piano " " advanced " 	15 00
Voice " " 	15 00
Violin " " 	15 00
Organ " " 	15 00
Rent of piano one hour a day.....	2 00
Vocal sight-reading, daily.....	1 00
Concerts	50

Students of the College of Music are entitled to pursue other regular college work without paying additional fees.

Every student is under the rules of the University and can profit by its advantages.



AUTUMN LEAVES, UNIVERSITY CAMPUS

COMMERCIAL COLLEGE

PROFESSOR C. M. COPELAND, PRINCIPAL.

Accounting and Commercial Law.

MABEL K. BROWN,

Stenography and Typewriting.

NEIMAN R. CUNIOUS,

Penmanship.

Ohio University began in 1893 to offer courses in commercial studies. The increasing demand for this line of work justified the establishment and equipment of a separate department, in 1899, with a course of study consisting largely of commercial branches and some required work in English and History. This arrangement gave regular students an opportunity to elect this work as a part of their college course, and it is gratifying to note that many of them have improved the opportunity. These and the special students who had a good preparatory training, have been greatly benefited and those who desired it have had no trouble to find employment. But the greater part of the special students with meager preparation were poorly equipped for a successful business career even after they had made a good record in their work. The result of this experience has been the establishment of the Commercial College of the University with a course covering four years of required work of which two years are preparatory and two collegiate. This new arrangement in no way operates to the disadvantage of those classes of students who have heretofore been benefited by the department. Students in other courses may still elect commercial studies and special students will be permitted to take any part of the course and receive certificates for what they have done. Diplomas, however, will be granted only to those who complete the prescribed course.

The University library, reading-room, literary societies, gymnasium, associations, etc., are open to the students of this College without extra charge. Commodious rooms in the new building have been well-equipped for this work.

The commission, wholesale and retail offices and the bank, in the office department, are models in arrangement, fixtures, and supplies. Here students receive the training that comes from filling the principal as well as the subordinate positions in such offices. In the bank they pass from the work of collection clerk to that of bookkeeper and manager; in the railroad office they are agent and clerk; in the commission office, receiving clerk, shipping clerk, bookkeeper, and manager; in the wholesale office shipping clerk, bookkeeper, and manager.

COMMERCIAL COURSE

Preparatory

FIRST YEAR		SECOND YEAR	
First Term		First Term	
Elementary Rhetoric,	* (5)	Elementary Physics,	(5)
Physical Geography,	(5)	English Literature,	(5)
U. S. History,	(3)	General History,	(5)
Beginning Algebra,	(5)	Elementary Psychology,	(5)
Drawing,	(1)		
Second Term		Second Term	
American Literature,	(5)	Elementary Physics,	(5)
U. S. History,	(3)	English Literature,	(5)
Algebra,	(5)	General History,	(5)
Elementary Physiology,	(5)	Commercial Geography,	(5)
Drawing,	(1)		
Third Term		Third Term	
American Literature,	(5)	Advanced Rhetoric,	(5)
Civil Government,	(5)	Plane Geometry,	(5)
Algebra,	(5)	History of England,	(5)
Botany,	(5)	Commercial Arithmetic,	(5)
Drawing,	(5)		

* The figures represent the number of recitations per week.

Collegiate

FIRST YEAR

First Term

Accounting,	(5)
Freshman English,	(3)
Freshman U. S. History,	(4)
A Modern Language,	(5)
Penmanship,	

Second Term

Advanced Accounting,	(5)
Freshman English,	(3)
Freshman U. S. History,	(4)
A Modern Language,	(5)
Penmanship,	

Third Term

Office Practice,	(5)
Freshman English,	(3)
Freshman U. S. History,	(4)
A Modern Language,	(4)
Penmanship,	

SECOND YEAR

First Term

Corporation Accounting,	(3)
A Modern Language,	(4)
Political Economy,	(2)
Stenography,	(5)
Typewriting,	

Second Term

Commercial Law,	(3)
A Modern Language,	(4)
Political Economy,	(2)
Stenography,	(5)
Typewriting,	

Third Term

Commercial Law,	(3)
A Modern Language,	(4)
Money and Banking,	(3)
Stenography,	(5)
Typewriting,	

Substitutes in the above course may be made upon the consent of the Faculty.

DESCRIPTION OF WORK

Those studies in the course which are not described below are outlined elsewhere in this catalogue.

1. ACCOUNTING — Five hours per week for two terms. Beginning classes are formed each term. Ample practice is given in the systems of accounts used in the various kinds of business from retailing to modern banking. It is the aim of this course to give the student a wide acquaintance with business methods and to secure proficiency in opening and closing books, journalizing, rendering statements, tracing errors, analyzing accounts, and drawing business papers.

This course prepares teachers to meet the requirements in high schools.

2. OFFICE PRACTICE AND BANKING—Five hours per week for one term and open to students who have taken Theory of Accounts. This work is on the inter-collegiate communication plan, and the transactions are with students of other colleges. The business correspondence growing out of purchases, sales, remittances, collections, making settlements, and adjusting accounts, carried on with a number of advanced students in other cities each one anxious to maintain a good record for his school, must certainly develop a high grade of efficiency in all the student's work.

3. COMMERCIAL LAW—Three hours per week in the Winter and Spring terms. This work deals in a general way with the subjects of contracts, agency, partnership, corporations, sales and negotiable paper, and is intended to give students a practical acquaintance with the fundamental principles of each.

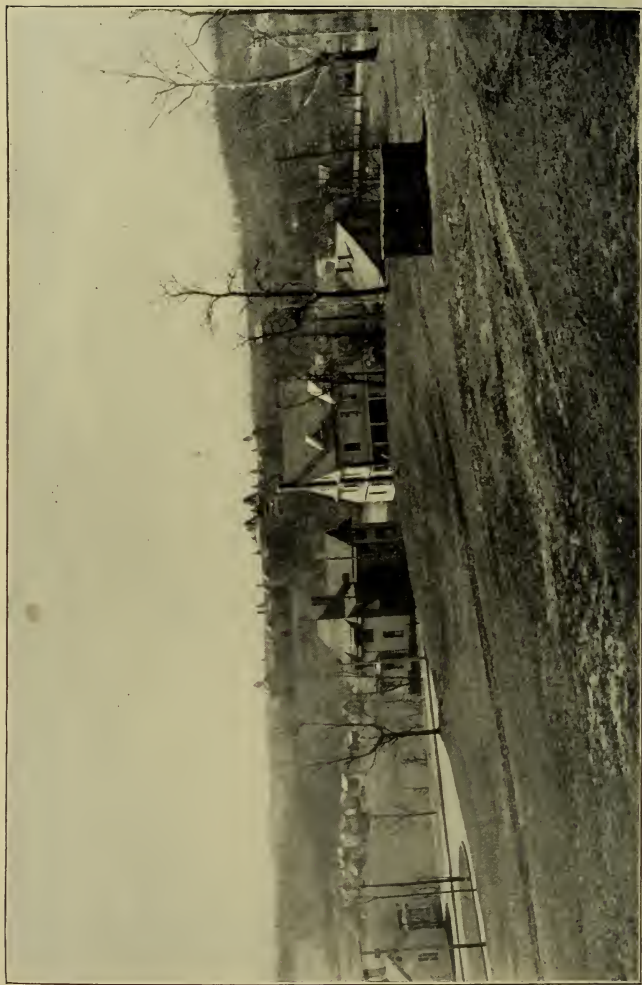
4. CORPORATION ACCOUNTING—A course in the organization, management, financing, and accounting of corporations.

5. STENOGRAPHY—In the business and professional world of to-day there is a constantly increasing demand for good stenographers. It is the aim of this department to fit young people to meet that demand.

The instruction is arranged with a view to thoroughness, and special attention is paid to the elementary principles of the subject, as it is believed that only in this way can good results be obtained.

The course covers three terms, or ten months, but students may complete it in less time if they have the ability to do so. Beginning classes are formed every term.

While the demand for stenographers is increasing every year, the standard of proficiency is steadily rising. In order to obtain and hold a good position the stenographer must be able not only to take notes rapidly and accurately, but to transcribe them intelligently. No person whose education in English is deficient is prepared to do this, no matter how great his skill as a stenographer. The courses in English in the University are open to all students in stenography without



STATE HOSPITAL AS SEEN FROM UNIVERSITY CAMPUS

extra charge, and those who need instruction in English branches should avail themselves of the opportunities offered.

6. **TYPEWRITING**—The student's first efforts are directed to acquiring a command of the keyboard by the touch method. This is followed by practice leading to high speed in writing. All kinds of business and legal forms are studied, and as soon as possible the student is required to transcribe his notes taken from dictation. Throughout the entire course daily drill is given in spelling, capitalization, and punctuation.

7. **PENMANSHIP**—Students in the Commercial course who do not write a good hand are required to take regular instruction. The constant aim in all exercises is to develop plain writing with an easy, rapid movement. Ornamental work will be given to advanced students who desire it.

EXPENSES

In addition to the contingent fee of \$5.00 there is a special fee of \$5.00 for Accounting, \$5.00 for Stenography and Typewriting, and \$1.50 for Penmanship, per term. The fee for the diploma is \$3.00. The fee for Typewriting alone is \$2.00 per term.

COURSES OF STUDY

COLLEGIATE DEPARTMENT

In the following scheme, the figures in parentheses indicate the number of exercises per week. It is believed that the four courses given below are equal in educational value, and all require 2,500 hours of class-room work for their completion. The required work in each course is about 1,500 hours. Each student is expected to select the remaining 1,000 from the electives offered in the various departments.

REQUIRED SUBJECTS FOR THE DEGREE OF BACHELOR OF ARTS

Freshman Year

FALL TERM — Greek (4); Latin (4); Solid Geometry (4); Political Economy (2); Tennyson (3).

WINTER TERM — Greek (4); Latin (4); Algebra (4); Political Economy (2).

SPRING TERM — Greek (4); Latin (4); Plane Trigonometry and Surveying (4).

Sophomore Year

FALL TERM — Greek or Latin (4); Chemistry (4); European History (3); College Rhetoric (3).

WINTER TERM — Greek or Latin (4); Anatomy (4); Chemistry (4).

SPRING TERM — Greek or Latin (4); Physiology (4); European History (3).

Junior Year

FALL TERM — English Literature (4); Psychology (3).

WINTER TERM — Psychology (3).

SPRING TERM — English Literature (4).

Senior Year

FALL TERM — Advanced Botany or Geology (4).

WINTER TERM — Logic (4); Astronomy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF BACHELOR OF PHILOSOPHY

Freshman Year

FALL TERM — Latin (4); German (4); Solid Geometry (4); Political Economy (2); Tennyson (3).

WINTER TERM — Latin (4); German (4); Algebra (4); Political Economy (2).

SPRING TERM — Latin (4); German (4); Plane Trigonometry and Surveying (4).

Sophomore Year

FALL TERM — French (4); Chemistry (4); European History (3); College Rhetoric (3).

WINTER TERM — French (4); Chemistry (4); Anatomy (4).

SPRING TERM — French (4); Physiology (4); European History (3).

Junior Year

FALL TERM — English Literature (4); Psychology (3).

WINTER TERM — Psychology (3).

SPRING TERM — English Literature (4).

Senior Year

FALL TERM — Advanced Botany or Geology (4).

WINTER TERM — Logic (4); Astronomy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF BACHELOR OF SCIENCE

Freshman Year

FALL TERM — Chemistry (4); German (4); Solid Geometry (4); Political Economy (2); Tennyson (3).

WINTER TERM — German (4); Algebra (4); Political Economy (2); Chemistry (4).

SPRING TERM — German (4); Plane Trigonometry and Surveying (4).

Sophomore Year

FALL TERM — French (4); Trigonometry (4); European History (3); College Rhetoric (3).

WINTER TERM — French (4); Analytical Geometry (4).

SPRING TERM — French (4); Physiology (4); European History (3).

Junior Year

FALL TERM — Physics or Mechanics (4); English Literature (4); Psychology (3).

WINTER TERM — Physics (4); Psychology (3).

SPRING TERM — Physics (4).

Senior Year

FALL TERM — Advanced Botany or Geology (4).

WINTER TERM — Logic (4); Astronomy (4).

REQUIRED SUBJECTS FOR THE DEGREE OF BACHELOR OF PEDAGOGY

Freshman Year

FALL TERM — U. S. History (4); Solid Geometry (4); Political Economy (2); A Foreign Language (4); Tennyson (3).

WINTER TERM — U. S. History (4); Algebra (4); A Foreign Language (4); Political Economy (2).

SPRING TERM — U. S. History (4); Plane Trigonometry and Surveying (4); A Foreign Language (4).

Sophomore Year

FALL TERM — A Foreign Language (4); European History (3); College Rhetoric (3).

WINTER TERM — A Foreign Language (4); Anatomy (4).

SPRING TERM — A Foreign Language (4); Physiology (4); European History (3).

Junior Year

FALL TERM — A Foreign Language (4); English Literature (4); Psychology (3).

WINTER TERM — A Foreign Language (4); History of Education (4); Elocution (3); Psychology (3).

SPRING TERM — A Foreign Language (4); English Literature (4); History of Education (4); Elocution (3).



CORNER OF BIOLOGICAL LABORATORY



CHEMICAL CASE, BIOLOGICAL LABORATORY

Senior Year

FALL TERM — English Literature (4).

WINTER TERM — Logic (4); Astronomy (4).

SPRING TERM — Science of Education (4).

PREPARATORY DEPARTMENT

ELI DUNKLE, *Principal*.

This department is designed to prepare students for the regular courses of the college. Students are also received who wish to pursue elementary studies, even though they may have no intention of entering one of the higher courses.

Candidates for admission to this department must furnish satisfactory evidence of good character, and must pass examination in Geography, Arithmetic, English Grammar, Elementary U. S. History, and all studies of the courses lower than those which they wish to pursue. Persons who have certificates from county examiners in Ohio will be admitted without examination in the subjects named above. But students who expect to graduate from the Normal College must give evidence that they are thoroughly familiar with the common-school branches.

There are four preparatory courses, Classical, Philosophical, Scientific, and Pedagogical, each requiring three years for completion, and each leading to a corresponding course in the collegiate department. For the benefit of teachers and others who wish a more thorough preparation for their work, classes in Arithmetic, Elementary Algebra, and English Grammar will be organized at the beginning of each term.

The Courses of Study in Detail

LATIN

FIRST TERM — Collar and Daniell's Beginner's Latin Book.

SECOND AND THIRD TERMS — Rolfe and Dennison's Junior Latin Book. Especial stress is laid on inflections and composition.

SECOND YEAR — Cicero's Orations. The orations usually read are the four against Catiline, Pro Archia, Pro Marcello, and Pro Ligario. A careful study of forms and syntax is an important part of this year's work.

THIRD YEAR — Vergil's Aeneid, Books I-VI. Grammar reviews, scansion and mythology. Collar's Latin Prose Composition.

GREEK

FIRST AND SECOND TERMS — White's Beginner's Greek Book, with particular reference to inflections and sentence writing.

THIRD TERM — Xenophon's Anabasis, Grammatical reviews and translation into Greek of easy prose.

FOURTH TERM — Anabasis continued through the fourth book. Jones's Greek Prose Composition.

FIFTH AND SIXTH TERMS — The Orations of Lysias. Jones's Greek Prose.

In this connection considerable time is given to the study of the Epic dialect.

ENGLISH

FIRST TERM — Lockwood and Emerson's Composition and Rhetoric.

SECOND TERM — American Literature — Selections from Irving, Bryant, Whittier, and Poe.

THIRD TERM — American Literature continued — Selections from Lowell, Longfellow, Emerson, Hawthorne, and Holmes.

FOURTH TERM — English Literature — Selections from Shakespeare, Milton, Burke, Addison, and Dryden.

FIFTH TERM — English Literature continued — Selections from Johnson, Wordsworth, Macaulay, George Eliot, and Coleridge.

SIXTH TERM — Lockwood and Emerson's Composition and Rhetoric completed.

GERMAN

FIRST TERM — Whitney's Compendious German Grammar, with reading and recasting the parables of the New Testament.

SECOND AND THIRD TERMS — Grammar, and Brandt's German Reader for Beginners.

FRENCH

Students taking the Scientific course may* substitute a year of French for Vergil's Aeneid and Collar's Latin Prose Composition.

MATHEMATICS

FIRST TERM — Milne's Essentials of Algebra, entire textbook.

SECOND TERM — Fisher and Schwatt's Secondary Algebra.

THIRD TERM — Fisher and Schwatt's Secondary Algebra.

FOURTH TERM — Phillips and Fisher's Plane Geometry, abridged edition.

PHYSICS

Two terms, five hours per week. Recitations three times a week. Laboratory work four to six hours per week, three hours in the laboratory being equivalent to one recitation.

Carhart & Chute's Physics will be used as a guide for the class work. Full notes are taken in the laboratory, which are criticized, corrected, and copied into a permanent book. The object is to teach laboratory methods of work and give opportunity to the student to acquire more or less skill in handling apparatus, while the recitation periods are devoted to the acquisition of the elementary principles of the subject.

PHYSICAL GEOGRAPHY

This subject is required in all courses. Davis's Physical Geography is the book used.

ZOÖLOGY

Considerable field work is done, and, in addition, preserved marine types are made use of for dissection. Students are expected to spend some time in the zoölogical museum. The text is Parker & Haswell's Manual of Zoölogy; Dodge's Elementary Biology is used as a laboratory guide. Constant reference is made to standard works on the subject.

PHYSIOLOGY

The text-book is Martin's Human Body, Briefer Course. The aim is to give a good general knowledge of Anatomy and Hygiene and of the functions of the different organs of the body. More or less laboratory work is done.

BOTANY

Field and laboratory work are a leading feature in this course. Each student will prepare a herbarium of not less than forty plants. Bergen's Foundations of Botany is the text-book.

U. S. HISTORY

Two terms: The first of three hours per week, and the second of five hours per week. Text-book, either The Student's American History by Montgomery, or Channing's Student's History of the United States.

CIVICS

The fundamental principles of the subject are carefully explained, while at the same time the practical operation of the different local and state systems are compared. Especial attention is given to the government of Ohio. The growth of our national system is thoroughly investigated.

EUROPEAN HISTORY

This subject is pursued three terms in the Second Preparatory Year.

FIRST TERM — Botsford's History of Greece.

SECOND TERM — Myers's Rome.

THIRD TERM — Montgomery's Leading Facts of English History.

The aim is to give the student a general acquaintance with the leading persons, and the institutions, political and religious, with the literary and artistic movements; in general, with the progress of civilization in its broader aspects. The method employed will be the text-book, references to more

comprehensive works, essay writing, map-drawing, and lectures by the teacher.

PEDAGOGY

FIRST TERM — Gordy's Psychology.

SECOND TERM — White's Art of Teaching.

THIRD TERM — Fitch's Lectures on Teaching.

DRAWING

Required in all four courses. Two hours in the studio are considered equivalent to one recitation.

Conspectus of Preparatory Courses

FIRST YEAR — First Term.

<i>Classical.</i>	<i>Philosophical.</i>	<i>Scientific.</i>	<i>Pedagogical.</i>
Beginning Latin 5	Beginning Latin 5	Beginning Latin 5	Beginning Latin 5
Rhetoric 5	Rhetoric 5	Rhetoric 5	Rhetoric 5
Physical Geography 5	Physical Geography 5	Physical Geography 5	Physical Geography 5
Drawing 1	Drawing 1	Drawing 3	Drawing 1
U. S. History 3	U. S. History 3	U. S. History 1	U. S. History 3

Second Term.

<i>Classical.</i>	<i>Philosophical.</i>	<i>Scientific.</i>	<i>Pedagogical.</i>
Latin — Rolfe and Denison 5	Latin — Rolfe and Denison 5	Latin — Rolfe and Denison 5	Latin — Rolfe and Denison 5
English Literature 5	English Literature 5	English Literature 5	English Literature 5
Drawing 2	Drawing 2	Drawing 2	Drawing 2
Elocution 3	Elocution 3	Elocution 3	Elocution 3
U. S. History 5	U. S. History 4	U. S. History 4	U. S. History 4

Third Term.

<i>Classical.</i>	<i>Philosophical.</i>	<i>Scientific.</i>	<i>Pedagogical.</i>
Latin — Rolfe and Denison 5	Latin — Rolfe and Denison 5	Latin — Rolfe and Denison 5	Latin — Rolfe and Denison 5
English Literature 5	English Literature 5	English Literature 5	English Literature 5
Elocution 3	Elocution 3	Elocution 5	Elocution 3
Drawing 2	Drawing 2	Drawing 2	Drawing 2
Civil Government 5	Civil Government 5	Civil Government 5	Civil Government 5

Conspectus of Preparatory Courses — Continued

SECOND YEAR—First Term.

<i>Classical.</i>	<i>Philosophical.</i>	<i>Scientific.</i>	<i>Pedagogical.</i>
Cicero's Orations	Cicero's Orations	Cicero's Orations	Cicero's Orations
Beginning Greek	History of Greece.....	History of Greece.....	History of Greece.....
History of Greece.....	Zoölogy	Zoölogy	Zoölogy
Algebra	Algebra	Algebra	Algebra

Second Term.

Cicero's Orations	Cicero's Orations	Cicero's Orations
Greek — Second Term	History of Rome.....	History of Rome.....
History of Rome.....	Physiology	Physiology
Algebra	Algebra	Algebra

Third Term.

Cicero's Orations	Cicero's Orations	Cicero's Orations
Anabasis	History of England.....	History of England.....
History of England.....	Botany	Botany
Algebra	Algebra	Algebra

Conspectus of Preparatory Courses — Concluded

THIRD YEAR—First Term.			
<i>Classical.</i>	<i>Philosophical.</i>	<i>Scientific.</i>	<i>Pedagogical.</i>
Vergil } 5	Vergil } 5	Vergil or French..... } 5	Vergil } 5
Latin Prose Composition. } 5	Latin Prose Composition } 5	Latin Prose Composition } 5	Latin Prose Composition } 5
Analasis } 5	German } 5	German } 5	Psychology } 5
Greek Prose Composition } 5	Elementary Physics } 5	Elementary Physics } 5	Elementary Physics } 5
Elementary Physics } 5	English Literature } 5	English Literature } 5	English Literature } 5
English Literature } 5			
Second Term.			
Vergil } 5	Vergil } 5	Vergil or French..... } 5	Vergil } 5
Latin Prose Composition. } 5	Latin Prose Composition } 5	Latin Prose Composition } 5	Latin Prose Composition } 5
Lysias's Orations } 5	German } 5	German } 5	Art of Teaching..... } 5
Greek Prose Composition } 5	Elementary Physics } 5	Elementary Physics } 5	Elementary Physics } 5
Elementary Physics } 5	English } 5	English } 5	English } 5
English } 5			
Third Term.			
Vergil } 5	Vergil } 5	Vergil or French..... } 5	Vergil } 5
Latin Prose Composition. } 5	Latin Prose Composition } 5	Latin Prose Composition } 5	Latin Prose Composition } 5
Lysias's Orations } 5	German } 5	German } 5	Methods of Teaching..... } 5
Greek Prose Composition } 5	Advanced Rhetoric } 5	Advanced Rhetoric } 5	Advanced Rhetoric } 5
Advanced Rhetoric } 5	Plane Geometry } 5	Plane Geometry } 5	Plane Geometry } 5
Plane Geometry } 5			

The figure after the name of a study indicates the number of recitations per week in that subject.



SOUTHEAST CORNER IN ART DEPARTMENT



SOUTHWEST CORNER IN ART DEPARTMENT

SUMMER TERM

June 23 to August 2, 1902

This term is arranged to accommodate those who are otherwise employed during the regular terms and to afford college students an opportunity to continue their studies. All collegiate instruction will be given by members of the regular Faculty and the requirements and the credits in the various branches taught will be the same as in other terms.

Ohio University, by tradition and experience, has ever been in close touch with the public-school system of the State. Many of the graduates and many who left the undergraduate classes without completing a course are now engaged in teaching. Of the students now in attendance upon college classes at least one-third have had successful experience in teaching. This institution was one of the first in Ohio to establish and maintain with credit, a Department of Psychology and Pedagogy.

The "Summer Term" is now an established feature of Ohio University. The work will be re-arranged and made more varied and efficient as recognized needs and experience point the way. The nature of the work for the summer of 1902, can be understood, in part, by reference to the subjects in which instruction is provided and to the lists of lecturers and conference leaders.

CORPS OF INSTRUCTORS

ALSTON ELLIS, PH. D., LL. D.,
President.

ALBERT A. ATKINSON, M. S.,
Physics, Electrical Engineering, and Mathematics.

BREWSTER OWEN HIGLEY, M. PH.,
History, Civics, and Political Economy.

WILLIAM FAIRFIELD MERCER, PH. D.,
Biology and Geology.

EDWIN W. CHUBB, LITT. D.,
Literature, Rhetoric, and Elocution.

CHARLES M. COPELAND, B. PED.,
Commercial Branches.

ELI DUNKLE, A. M.,
Preparatory Latin and Greek.

JAMES PRYOR McVEY,
Vocal Music.

MABEL K. BROWN, PH. B.,
Stenography and Typewriting.

MAY S. CONNOR, PH. B.,
Free-hand Drawing.

LILLIE FARIS,
(Training Teacher, Marietta, Ohio, Schools).
Model Primary School.

RUTH ETHEL MOUGEY,
Dramatic Reading and Impersonating.

LECTURERS

HON. LEWIS D. BONEBRAKE,
State Commissioner of Common Schools, Columbus, Ohio.

DR. RICHARD G. BOONE,
Superintendent Public Schools, Cincinnati, Ohio.

DR. N. H. CHANEY,
Superintendent Public Schools, Chillicothe, Ohio.

HON. O. T. CORSON,
Editor Ohio Educational Monthly, Columbus, Ohio.

DR. J. M. DAVIS,
President Rio Grande College, Rio Grande, Ohio.

DR. ALSTON ELLIS,
President Ohio University, Athens, Ohio.

HON. C. H. GROSVENOR,
Member Congress, 11th Ohio District, Athens, Ohio.

DR. ALFRED T. PERRY,
President Marietta College, Marietta, Ohio.

DR. JACOB A. SHAWAN,
Superintendent Public Schools, Columbus, Ohio.

MISS MARGARET W. SUTHERLAND,
Principal Training School for Teachers, Columbus, Ohio.

HON. EMMETT TOMPKINS,
Member of Congress, 12th Ohio District, Columbus, Ohio.

HENRY G. WILLIAMS, A. M.,
Superintendent Public Schools, Marietta, Ohio.

TEACHERS' CONFERENCE LEADERS

SUPT. C. L. BOYER.....	Circleville, Ohio.
“ CHARLES J. BRITTON.....	Gallipolis, Ohio.
“ J. L. CADWALLADER.....	Greenfield, Ohio.
“ C. F. COATES.....	Pomeroy, Ohio.
“ F. S. COULTRAP.....	Athens, Ohio.
“ C. L. CRONEBAUGH.....	Cambridge, Ohio.
“ A. H. DIXON.	Albany, Ohio.
“ AARON GRADY	Nelsonville, Ohio.
“ S. P. HUMPHREY.....	Ironton, Ohio.
“ J. E. KINNISON.....	Jackson, Ohio.
“ W. D. LASH.....	Zanesville, Ohio.
“ J. V. McMILLAN.....	Canal Dover, Ohio.
“ H. R. McVAY.....	Washington C. H., O.
“ JOHN MORRIS.....	Covington, Ky.
“ F. E. PIERPONT.....	Logan, Ohio.
PROF. CHARLES W. SUPER.....	Ohio University.
“ DAVID J. EVANS.....	“
“ WILLIAM HOOVER	“
“ WILLIAM B. BENTLEY.....	“
“ FRANK C. DOAN.....	“
“ EDWIN TAUSCH	“
“ HIRAM ROY WILSON.....	“

THE NORMAL COLLEGE

The recent action of the General Assembly of Ohio in making a law of H. B. No. 369 — Mr. Seese — places upon the authorities of the Ohio University, at Athens, and the Miami University, at Oxford, the duty of organizing, not later than September, 1903, "at their respective institutions a normal school which shall be co-ordinate with existing courses of instruction and shall be maintained in such a state of efficiency as to provide theoretical and practical training for all students desiring to prepare themselves for the work of teaching."

Section 3, of the Act, provides for a levy upon the grand list of the taxable property of the state of *one-thirtieth of one mill* upon each dollar of the valuation of such taxable property. This levy will produce an annual income of about \$65,000 which will be divided between the Ohio University and the Miami University in the ratio of seven to five.

At a called meeting of the Board of Trustees, held at its office in Athens, on March 25, 1902, the following preamble and resolution were unanimously adopted:

WHEREAS, The General Assembly of the State of Ohio has enacted into a law House Bill No. 369, known as the "Seese Bill," providing for the establishment of Normal Schools at the Ohio University, Athens, and at the Miami University, Oxford, and has provided for the support thereof; therefore be it

Resolved, That the provisions of said Act, and the trust created thereby, be accepted as far as they relate to the Ohio University; and that this Board will establish and maintain such an institution and will provide the necessary teaching force, buildings, and equipment therefor at the earliest practicable date.

Further action named the institution to be established, "The Normal College of Ohio University" and provided that its work should begin with the opening of the Fall term of the University, September 9, 1902. Subsequent to the issue of this catalogue, a circular containing full information regarding the work of the Normal College will be prepared for distribution.

On preceding pages of this publication will be found an



PHYSICAL LABORATORY



ART DEPARTMENT — STUDIOS

outline of the required subjects for the degree of Bachelor of Pedagogy. It will be seen that the work scheduled covers *the full period of four years, after three years' work, of a preparatory grade, has been satisfactorily completed.* It is purposed to make the work of the Normal College somewhat broader and more distinctively professional than that of the present Pedagogical Course of the University. The aim will be to offer four grades of work to persons desiring to make preparation for teaching:

1. A strong two-year course, admission to which will require a preparation, on the part of the student, fully equal to that he would acquire by the completion of a good four-year high-school course or the preparatory course of this institution or any institution having a like high scholastic standing. For the satisfactory completion of this course, which will include academic and professional work and ample training-school practice, a *Diploma* will be given.

2. A more thorough professional course, covering a full four-year period and, while clearly differentiated from them, the equal, in scholarship and training power, of any of the existing college courses. This course will lead to the degree of *Bachelor of Pedagogy.*

3. A preparatory course, at the outset at least, will be a necessity. This will be abandoned just as soon as conditions will permit. The college authorities have no wish or intention to invite the presence of persons who can secure desirable preparatory work elsewhere.

4. A special course for deserving teachers who wish a better academic education and more professional preparation for their work, but who by reason of compelling circumstances, have not time to complete the course leading to a *diploma* or a *degree.*

For sixteen years, the Ohio University has made provision for the training of teachers in its Normal Department. This owes its existence to legislation, May 11, 1886, whereby the sum of \$5,000 was appropriated for its establishment. The appropriation was accepted by the Board of Trustees and made effective through the efforts of its committee, the chairman of which was Dr. John Hancock, since deceased. This committee placed Dr. John P. Gordy at the head of the new department and its special work was entered upon in Septem-

ber of the same year. Two courses of study were offered, an "*Elementary*" and an "*Advanced*," and the latter was made equal to and parallel with the other two college courses then existing. President Super, in his annual report just subsequent to the opening of the Normal Department, said of its advanced or college course: "It is proposed to equip those who finish this with all the knowledge possessed by college graduates and also with special qualifications for the teachers' profession in its highest departments. In the nature of the case, the number who complete this course will never be very large, yet it is proposed to make their mental equipment so excellent that they must become centers of intellectual progress from which shall emanate all that tends to make the teachers' profession an honorable one and a blessing to the youth of Ohio." Referring to the elementary course he adds: "It is elementary only in comparison with the advanced course and embraces many of its excellent features. Its purpose is to furnish the best possible equipment for those persons who feel the need of some special training, in a lower degree, for the work of teaching, but who, for any cause, find it impossible or burdensome to take the longer course. While advising all prospective teachers to take the longer one, we are confident that great profit for them lies in the shorter, even if they can not complete it."

One recommendation of Dr. Hancock's report, before referred to, foreshadowed what is now contemplated in the organization of the work of the Normal College: "The committee also asks for authority to negotiate with the Board of Education, of Athens, with the view of obtaining the privilege of using designated departments of those schools as practice or model schools, under such conditions as may be mutually agreed upon."

A Normal College that is to serve the best interests of those who seek training in it must give ample opportunity for uniting *theory* and *practice* in its work.

The opening of the Normal College, in September next, will bring a responsibility upon the University authorities whose gravity is fully realized by them; but the educational conditions at Athens are such as to give a stable foundation for what wisely-directed, conscientious effort may seek to build and amplify.

ALUMNI ASSOCIATION

OFFICERS

President, H. G. STALDER, '93.

Vice-President, S. L. McCUNE, '96.

Secretary, AMY WEIHR, '95.

Treasurer, E. D. SAYRE.

EXECUTIVE COMMITTEE

L. G. WORSTELL, '88.

L. M. JEWETT, '61.

W. B. LAWRENCE, '92.

I. M. FOSTER, '95.

CONSTITUTION

ARTICLE I. This Association shall be called the "Alumni Association of the Ohio University."

ART. II. The officers of the Association shall be a President, Vice-President, Secretary, Treasurer, and an Executive Committee, consisting of three members, to be chosen annually.

ART. III. The annual meetings of this Association shall be held in connection with the Commencement exercises of the University.

ART. IV. The object of this Association shall be to cultivate fraternal relations among the Alumni of the University, and to promote the interests of our Alma Mater by the holding of social reunions, by literary exercises, or by such other means as the Association may, from time to time, deem best.

ART. V. Any member of the Faculty, and graduate of the University, also any one who has spent three years in the college classes of the University, and has been honorably dismissed, may, by the payment of one dollar and the signing of the Constitution, become a member of this Association.

ART. VI. This Constitution may be altered or amended at any annual meeting, by a vote of two-thirds of those present at such meeting.

ART. VII. *Amendment.* The members of this Association shall each pay into its treasury an annual fee of one dollar, and the sum so paid shall be expended in defraying the expenses of the annual reunion.

LIST OF STUDENTS

COLLEGIATE DEPARTMENT

POST-GRADUATES STUDYING FOR A DEGREE

Bean, L. Gardner, B. Ped.....	Athens
Burns, Esther Helen, A. B.....	Middleport.
Tullis, Don Delano, Ph. B.....	Bloomingsburg.

CLASS OF 1901

Batterson, Mayme Alice.....	Portsmouth.
Black, Margaret Geneva	Glen Ebon.
Blackwood, Nelle R.....	Athens.
Brown, Minnie Frances	Athens.
Evans, Jacob Claire	Athens.
Fuller, Nellie Mary	Athens.
Horn, Burnice LeRoy	Medina.
Kurtz, Ann Elizabeth.....	Lapeer, Mich.
Riley, Martina Mary	Guysville.
White, Gershoin Franklin.....	Malta.
Wickham, Mabel Leona.....	Glen Ullin, N. Dak.

SENIORS

Caldwell, George Washington.....	Lottridge.
Conner, May Sherwood.....	Athens.
Copeland, William Franklin.....	Tappan.
Johnston, Fred Preston	Trimble.
Kaler, Mary Engle.....	Athens.
Lamb, George Franklin.....	Lancaster.
Lapp, George Harlan.....	Will's Creek.
Paine, Howard Sheperd.....	Hamden Junction.
Pickering, Nelle Marcus.....	Athens.
Sheppard, Carl Dunkle.....	McArthur.
Townsend, Mary Allen.....	Athens.
Wilson, Nell Blanche	Athens.
Winter, Samuel Guy.....	Crooksville.



COMMERCIAL COLLEGE — BANKING



COMMERCIAL COLLEGE — BOOKKEEPING

JUNIORS

Bishop, Robert Francis, Jr.....	Athens.
Glazier, Lena Blanche.....	Athens.
Hambleton, Antrum Marion	Hooksburg.
Irwin, Algernon Charles.....	South Perry.
Linton, Nancy E.....	Frost.
Morgan, Thurman Leroy.....	Waverly.
Nease, Nannie Louise.....	Point Pleasant, W. Va.
Peters, Crissie May.....	Ashville.
Riley, Ethel Eleanor.....	Guysville.
Sprague, Jennie Edith.....	Millfield.
Sullivan, Fred T.....	Warwick, N. Y.
Williamson, Lissa	Lancaster.
Wood, James Perry, Jr.....	Athens.
Zang, Jacob Milton.....	Newport, Pa.

SOPHOMORES

Bennett, Elizabeth Ruth.....	Shawnee, Pa.
Biddle, Victor	Athens.
Bishop, Lenora Belle.....	Athens.
Conner, Flora Terhune.....	Athens.
Cornwell, Clifford Emerson.....	Athens.
Coultrap, Floyd E.....	Athens.
Dixon, Floyd	Athens.
Elder, Adam Griggs.....	Athens.
Finsterwald, Homer Grosvenor.....	Athens.
Gabbert, Nan Maria	Point Pleasant, W. Va.
Goodsir, John Petrie.....	Brooklyn, N. Y.
Henry, Francis Beardsley.....	Athens.
Jones, Joseph Ray.....	Jackson.
Lash, E. Rey, Jr.....	Athens.
McDaniel, John Edmon.....	Pomeroy.
Matheny, William Martin.....	Shade.
Needham, Fred Coates.....	Athens.
O'Bleness, Mame	Athens.
Ogihara, Takujo	Tokio, Japan.
Pilcher, Benjamin Luther.....	Canaanville.
Place, Benoni Austin	Qualey.
Smith, Murray Franklin.....	McArthur.
Thompson, David Lewis.....	South Perry.
Tinker, Frederick Huntington.....	Athens.
Tuttle, Eugene Vivian	Palmyra.
Waggoner, Chauncey William.....	Sugar Grove.
Welch, Philip Johnson.....	Athens.
White, Ennis Leslie.....	Malta.
Wood, Mary Ellen	Athens.
Yoshisaka, Sukichi	Kobe, Japan.

FRESHMEN

Alderman, Fred Leslie.....	Athens.
Bean, Fannie Cozette.....	Athens.
Biddison, Cladius L.....	Glouster.
Cable, Will Ransom.....	Athens.
Caldwell, Josephine	Lottridge.
Clayton, Mary Florence.....	Athens.
Connett, Harry Lewis	Athens.
Cooper, Margaret Maude.....	Athens.
Coultrap, Frieda Gebhardt.....	Athens.
Courtright, Harry Frederick.....	Tappan.
Cranmer, Lucy Aretha	Athens.
Cunius, Neiman Richard.....	Drums, Pa.
Earhart, Mazié Ada.....	Athens.
Ely, George Leonard.....	Wellston.
Hall, Elizabeth Alma.....	Logan.
Hartford, Pearl	New Philadelphia.
Hawkins, Frank	Hamden Junction.
Higgins, Cyrus Dow.....	Athens.
Hoover, Thomas Nathaniel.....	Piketon.
Howe, Mary Blanche.....	Athens.
Ireland, Guy G.....	Midland.
Jones, Albert Johnson.....	Athens.
Josten, James Mathis.....	Athens.
Kirkendall, Emmett Royal	Athens.
McDaniel, Maggie Dora.....	Pomeroy.
McLaughlin, George Evert.....	Adena.
McPherson, Joseph Elwyn.....	Jasper.
Martin, Catherine Regina.....	Jackson.
Pickering, Fred Stewart.....	Athens.
Pond, Dellie Hillis.....	Springfield.
Pursell, Helen Frances.....	Logan.
Reinherr, Helen Adella.....	Woodsfield.
Taylor, Lucy Mae.....	Tappan.
Townsend, Elmer Wilson.....	Waterloo, Montana.
Ullom, Jane Bayard	Athens.
Williamson, Mark Hooker.....	Lancaster.
Wilson, Homer Absolom.....	New Lexington.
Wood, Mame Longfellow.....	Athens.
Wright, James Otis, Jr.....	Athens.
Young, Charles Lewis	Marshfield.

IRREGULAR AND SPECIAL STUDENTS

Brown, Minnie Frances, Ph. B.....	Athens.
Deffenbaugh, Walter Sylvanus.....	Smithfield, Pa.
Fuller, Nellie Mary, Ph. B.....	Athens.
Heyde, Charles Frederick	Loudonville.
Hill, Laura Alice	Marietta.
Hooper, Dollie, B. Ped.....	Athens.

Jones, Margaret Edith.....	Jackson.
Kaler, Charlotte Rannells, Ph. B.....	Athens.
McLean, William Edward.....	Athens.
Matthews, Carrie Alta, A. M.....	Athens.
Moore, M. Ella.....	Athens.
Riter, Nicholas John	Ironton.
Russell, Mazie Alma.....	Athens.
Tausch, Elizabeth H.....	Athens.
Ullom, Sarah Margaret.....	Athens.
White, Gershom Franklin, B. S.....	Malta.
Wickham, Mabel Leona, Ph. B.....	Glen Ullin, N. Dak.
Wilson, Mabel Zoe, A. B.....	Athens.

THIRD PREPARATORY

Anthony, Allen Dwight.....	Union Furnace.
Atkinson, Estella	Zaleski.
Barker, Joseph Frederick.....	Athens.
Biddle, James Kester.....	Athens.
Blake, Vause	Lockbourne.
Brison, Robert Burns.....	Millersport.
Burke, Charles Edmund	Vigo.
Cable, Pearl Golden.....	Nelsonville.
Carpenter, Hattie May.....	Athens.
Chidester, Pearl M.....	Orbiston.
Crooks, Floyd Stanley.....	Glouster.
Crow, Fred Wilkinson.....	Great Bend.
Dean, Amanda Melissa.....	Athens.
Dieterich, William Wallace	Piketon.
Figley, Grace Audrey.....	Athens.
Frost, Helen Ethelwyne.....	Athens.
Gross, Fred Edward.....	Athens.
Haffey, Stephen Micleta.....	Canal Winchester.
Herrold, Pansy	Athens.
Hibbard, Albert Frederick.....	Athens.
Hulbert, Theron Crissey.....	Seville.
Ireland, Burdette B.....	Midland.
Jones, Edgar Lawrence.....	Parkersburg, W. Va.
Kelley, Emma Louise.....	Athens.
Laizure, Grant Arlington.....	Dennison.
Longwell, John Burt.....	Warwick, N. Y.
Matheny, William Alderman.....	Athens.
Miller, Guy Dolphus.....	Athens.
Morrow, David Campsey.....	Claysville, Pa.
Morton, Joshua Romine.....	Wilkesville.
Motter, Edwin Cameron.....	Gillespieville.
Murphy, Edward Chambers.....	Amanda.
Norton, Willey Higby.....	Sabot Island, Va.
Paine, Fannie Elizabeth.....	Jackson.
Pelter, Tullus	Centerburg.
Peoples, Evart Mace.....	Pomeroy.

Perry, William Albert.....	New England.
Poston, Frank Alton.....	Siloam, W. Va.
Richardson, Frank Cowdry.....	Warwick, N. Y.
Rochester, Alexander Sands.....	Athens.
Rorick, Mabel Acker.....	Athens.
Russell, Kyle Denton.....	Albany.
Scott, Nelle Rutledge.....	Athens.
Shaw, Fred	Rushsylvania.
Spencer, Holmes Augustus.....	Parkersburg, W. Va
Steward, Frank Averal.....	Jerusalem.
Stickney, Grace May.....	Athens.
Tinker, Arthur Whittaker.....	Athens.
Turley, Charles Elzea.....	Marshfield.
Wolfe, Arthur Almer.....	Athens.

SECOND PREPARATORY

Akers, Charles William.....	Keyser, W. Va.
Alleshouse, Wilbert Henry.....	New Bedford.
Andrews, James Garfield.....	Derthick.
Bailey, John Edson.....	Coolville.
Baker, Harley Ellsworth.....	Athens.
Barker, Dolly Beatrice.....	Athens.
Beverage, Leonora Dell.....	Marshfield.
Biddle, Frances Lillian.....	Athens.
Biddle, Nan Louise.....	Athens.
Bingman, Carl Wilson.....	Latrobe.
Brawley, Mary Gertrude.....	Amesville.
Bricker, Garland Armor.....	Etna.
Brickles, Ross Clayton.....	Athens.
Brown, Freeman Whitmore.....	Logan.
Brown, John Augustus.....	Corning.
Brown, Milton Maywood.....	Logan.
Burchfield, Henry Raymond.....	Athens.
Burke, Flora Celia.....	Vigo.
Burrell, Maine	New Lexington.
Clendenin, Mattie Lulu.....	Athens.
Clester, William Albert.....	Athens.
Climer, Jessie	Vigo.
Dailey, Earl Townsend.....	Albany.
Davis, Madora	Marshfield.
Davis, Margaret Anne.....	Clay.
Davis, Theora	Marshfield.
Dulaney, Harlan Herbert.....	Mountville.
Dumaree, Charles Henry.....	Luhrig.
Eblen, Roy Emmett.....	Wellston.
Eddy, Charles Isaac.....	Trimble.
Fuller, Herbert Earl.....	Athens.
Geeting, Charles Franklin.....	West Manchester.
Gross, Charles William.....	Athens.
Hambleton, James Arthur.....	Hooksburg.

Hatch, Murray	Frost.
Henson Clyde Evans.....	Clay.
Heyde, Harvard Louis.....	Loudonville.
Higgins, Winnie Belle.....	Athens.
Holmes, Basil Earle.....	Albany.
Hopkins, Kate Amanda.....	Downington.
Hugg, Genevieve	Rutland.
Hunter, Marie Douglass.....	Athens.
Johnson, Nettie Tabitha	Athens.
Jones, Charles Devlin	Monroe, N. Y.
Jones, Willie C.....	Guysville.
Laughlin, Perry.....	Steubenville.
Laughlin, Ross	Belle Center.
Licht, Emmett Irvin	Tuscarawas.
Linscott, Flossie Edith.....	Athens.
McBeth, Ira Guy.....	Georgetown.
McVey, John Tipton.....	Eastbank, W. Va.
Matheny, Clarence Albert.....	Beaumont.
Merry, Lloyd Clarence.....	Chauncey.
Mills, Edward Allen.....	Athens.
Patterson, Lena Estelle.....	Athens.
Phillips, William Richard.....	Athens.
Plum, Horace Walden	Tarleton.
Porter, Francis Marion.....	Kingston.
Richmond, Winifred Vanderbilt.....	Amesville.
Roach, Donna M.....	Athens.
Robinett, Amanda Louise.....	Albany.
Slaughter, Ray Elton.....	Athens.
Snyder, Oren Earle.....	Mountville.
Spencer, Samuel Selden.....	Parkersburg, W. Va.
Stoltz, Alma Mary	Rushville.
Wells, Bruce	Nelsonville.
Wells William Rolston.....	Lathrop.
Williams, Anna Pearl.....	Athens.
Williams, Ash F.....	Gans, Pa.
Wilson, Ralph Byron	Athens.
Woodgerd, Emma Jane	Athens.

FIRST PREPARATORY

Ailer, Iva Elizabeth.....	Buchtel.
Allison, Ida	Marshfield.
Angell, Lucy Pearl.....	Athens.
Anthony, Homer Foster.....	Union Furnace.
Anthony, Lizzie Belle.....	Union Furnace.
Backus, Eve	Starr.
Balderson, Fred Osto.....	Amesville.
Ball, James Wood.....	Warwick, N. Y.
Beam, Eliza	Garden.
Beasley, Mary Beatrice.....	Athens.
Buck, Benjamin Washington.....	Athens.

Buck, Flora Annette.....	Guysville.
Byer, Rudolph	Chase.
Carter, May	Jacksonville.
Castle, Moses Anthony.....	Sheldon.
Clark, Earl Carl.....	New Plymouth.
Climer, Alice Virginia.....	Vigo.
Coey, William Francis	Frankfort.
Coleman, Harry Edson.....	Athens.
Cook, Orland	Stewart.
Cullums, Ernest Grove.....	Canaanville.
Curran, Ella Bridget.....	Corning.
Daft, Ernest Echols.....	Buchtel.
Dailey, Elma May.....	Albany.
Desmond, Nell Aloysia.....	Corning.
De Vore, William Wayne.....	Marshfield.
Dinsmoor, Anna	Garden.
Dixon, Harry Jones.....	Gillespieville.
Doan, Hattie Elzina.....	Frost.
Doan, Osa Maude.....	Frost.
Droz, Grace Olivia.....	Athens.
Dumaree, Edward Louis.....	Mineral.
Fancher, Vina Belle	Gowanda, N. Y.
Finsterwald, Ollie Dell.....	Athens.
Fitzer, Elizabeth Evelyn.....	Buchtel.
Fitzer, Luella Temperance.....	Buchtel.
Francis, Warren Frederick.....	Athens.
Fraser, Herbert	Frost.
Gillilan, Berton Everett.....	Torch.
Hamilton, Grace Annis	Albany.
Hamner, Nathan Fleet.....	Lynchburg, Va.
Hanning, Maud Lucretia.....	Zelda.
Hawk, Clara	Marshfield.
Henderson, Vianna Darrell.....	Athens.
Henke, Heber Hunt.....	Athens.
Higley, Cora Eleanor.....	Coolville.
Holcomb, Blanche	New Lexington.
Huber, Lillie	Middleport.
Huhn, Joseph Sanford.....	McArthur.
Inman, Elizabeth E.....	Buchtel.
Jolley, Rose Winifred.....	Hebbardsville.
Jones, Carmi Rodman.....	Chillicothe.
Jones, Polly Ann	Tarlton.
Joyce, Margaret	Corning.
Kelly, Alma Frances.....	Athens.
Kelly, Lewis Weitzel.....	Athens.
Kennard, Mattie Estella.....	Carbondale.
Kennard, Susie Arminta.....	Carbondale.
Kidd, May.....	Marietta.
Lapp, Mary Amelia.....	Will's Creek.
Lee, William Henry.....	Creola.
Lehman, Emmett Harvey.....	Haydenville.

Lehman, John Andrew.....	Haydenville.
Linscott, Nehemiah Warren.....	Athens.
Lively, Ora C.....	Byer.
Lutz, George Wayne.....	Langsville.
Lyon, James Alphonso.....	Goshen, N. Y.
McBeth, Charles Elijah.....	Georgetown.
McBroom, Jessie	Glouster.
McDaniel, Ettie	Starr.
McDonald, Addie Jeannette	Buchtel.
McElhiney, Richard Halcy.....	Malta.
Masheter, Lenore Lena.....	Hebbardsville.
Mason, Lenna Beatrice.....	Trimble.
Matheny, Charles Roy.....	Beaumont.
Matheny, Letha May.....	Athens.
Miller, Clarence Leroy.....	Rushsylvania.
Morrison, Elisha Ray.....	Pleasanton.
Morse, Bessie Golden.....	Starr.
Mueller, Stella A.....	Marietta.
Nelson, Jennie	Glouster.
Parker, Walter Bush.....	Athens.
Richardson, Flossie	Frost.
Richardson, Rome	Frost.
Riley, Lulia	Guysville.
Sawvel, Walter Michael.....	Jewett.
Schramm, Elizabeth Regina.....	Stanleysville.
Scott, George Campbell.....	Xenia.
Shaver, Ada	Eastbank.
Shaver, James Almah.....	Eastbank.
Shields, Lizzie Maud.....	Coolville.
Shirkey, Mattie	Jacksonville.
Six, Mary Cecile.....	Nelsonville.
Smith, Emma Blanche.....	New England.
Spear, William Benton.....	Stewart.
Sprague, John Rollin.....	Millfield.
Stalder, Mary Agnes.....	Buchtel.
Stanley, Estella Clara.....	Hebbardsville.
Starr, Lulu Ella.....	Austin.
Stentz, Edward Crow	Gans, Pa.
Stewart, Martha Lacey.....	Middleport.
Stoltz, Effie Edith.....	Thornville.
Stonebraker, Francis Delbert.....	Demos.
Tippie, Loren Palmer.....	Athens.
True, Austin Ray.....	Basil.
Walker, Mary Edith.....	Athens.
Walls, Edith Irma.....	Buchanan.
Warrener, Anna Alice.....	Federal.
Waterman, Carrie	Coolville.
Wells, Ruth T.....	Racine.
White, Homer	Sugar Grove.
Williams, Jennie	Roseville.
Williams, Wilbur Leo.....	Athens.

ELECTRICAL ENGINEERING

SECOND YEAR

Cornwell, Clifford Emerson.....	Athens.
Gross, Fred Edward.....	Athens.
Hawkins, Frank	Hamden Junction.
Matheny, William Martin.....	Shade.
McLaughlin, George Evert (Advanced).....	Adena.
Needham, Fred Coates	Athens.
Perry, William Albert.....	New England.
Waggoner, Chauncey William.....	Sugar Grove.
White, Ennis Leslie.....	Malta.
Williamson, Mark Hooker.....	Lancaster.
Wright, James Otis, Jr.....	Athens.
Yoshisaka, Sukichi	Kobe, Japan.
Young, Charles Lewis.....	Marshfield.

FIRST YEAR

Alleshouse, Wilbert Henry.....	New Bedford.
Brickles, Ross Clayton.....	Athens.
Burrell, Maine	New Lexington.
Cable, Will Ransom	Athens.
Chidester, Pearl M.....	Orbiston.
Clark, Earl Carl (Preparatory).....	New Plymouth.
Courtright, Harry Frederick.....	Tappan.
Cunius, Neiman Richard (Draughting).....	Drums, Pa.
Eddy, Charles Isaac.....	Trimble.
Gillilan, Berton Everett (Preparatory).....	Torch.
Haffey, Stephen, Micleta.....	Canal Winchester.
Hambleton, Antrum Marion (Special).....	Hooksburg.
Hulbert, Theron Crissey.....	Seville.
Ireland, Burdette B.....	Midland.
Lapp, G. H. (Special).....	Will's Creek.
Lehman, Emmet Harvey (Preparatory).....	Haydenville.
Lyon, James Alphonso (Preparatory).....	Goshen, N. Y.
Matheny, Clarence Albert.....	Beaumont.
Mills, Edward Allen.....	Athens.
Murphy, Edward Chambers.....	Amanda.
Pelter, Tullus	Centerburg.
Porter, Francis Marion.....	Kingston.
Richardson, Frank Cowdry.....	Warwick, N. Y.
Russell, Kyle Denton.....	Albany.
Steward, Frank Averal.....	Jerusalem.
True, Austin Ray.....	Basil.



VIEW IN STATE HOSPITAL GROUNDS

COMMERCIAL COLLEGE

ADVANCED STUDENTS

Barnes, Rafael (Stenography).....	Ponce, Porto Rico.
Covert, Benjamin Marlette (Stenography).....	McCleary.
Dulaney, Harlan Herbert (Business).....	Mountville.
Hibbard, Albert Frederick (Business).....	Athens.
Johnston, Fred Preston (Stenography).....	Trimble.
Logan, Clade Landon (Stenography).....	Athens.
Miller, Guy Dolphus (Business).....	Athens.
Phillips, William Richard (Business).....	Athens.

COURSE COMPLETED

Akers, Charles William (Business).....	Keyser, W. Va.
Anthony, Allen Dwight (Business).....	Union Furnace.
Bean, Fannie Cozette (Business and Stenog.)..	Athens.
Brown, Freeman Whitmore (Business).....	Logan.
Brown, Milton Maywood (Business).....	Logan.
Carpenter, Hattie May (Stenography).....	Athens.
Covert, Benjamin Marlette (Bus. and Stenog.)	McCleary.
Friel, Maymie Rosa (Business).....	New Straitsville.
Herrold, Pansy (Stenography).....	Athens.
Hibbard, Albert Frederick (Stenography).....	Athens.
Josten, James Mathis (Business).....	Athens.
Kelley, Emma Louise Stenography).....	Athens.
Linscott, Flossie Edith (Business).....	Athens.
Matthews, Carrie Alta (Stenography)	Athens.
Mercer, Francis Marion (Business).....	Hooksburg.
Michael, Nelle Gay (Stenography).....	Athens.
Miller, Earl Smith (Business).....	West Bedford.
Miller, Guy Dolphus (Stenography).....	Athens.
Morgan, Thurman Leroy (Stenography).....	Waverly.
Pursell, Helen Frances (Stenography).....	Logan.
Riley, Ethel Eleanor (Stenography).....	Guysville.
Sheppard, Carl Dunkle (Stenography).....	McArthur.
Slaughter, Ray Elton (Business).....	Athens.
Stickney, Grace May (Stenography).....	Athens.
Wells, William Rolston (Business).....	Lathrop.
Wilson, Homer Absolom (Bus. and Stenog.)..	New Lexington.

COURSE UNFINISHED

Anthony, Lizzie Belle.....	Union Furnace.
Alderman, Fred Leslie.....	Athens.

Balderson, Fred Osto.....	Amesville.
Barnes, Sebastian	Ponce, Porto Rico.
Bell, Grace May.....	Glen Ebon.
Biddle, Nan Louise.....	Athens.
Bishop, Robert Francis, Jr.....	Athens.
Blaine, Ethelyne Mae.....	Athens.
Blake, Vause	Lockbourne.
Bougher, Ethel Ray	Athens.
Burke, Flora Celia.....	Vigo.
Cable, Will Ransom.....	Vigo.
Chambers, Mary Alice.....	Athens.
Colcman, Harry Edson.....	Athens.
Cooper, Margaret Maudc.....	Athens.
Coultrap, Floyd E.....	Athens.
Daft, Ernest Echols.....	Buchtel.
Dailey, Earl Townsend.....	Albany.
Dailey, Elma May.....	Albany.
Davis, Margaret Anne.....	Clay.
DeVore, William Wayne.....	Marshfield.
Dixon, Harry Jones.....	Gillespieville.
Dumaree, Charles Henry.....	Luhrig.
Figley, Grace Audrey.....	Athens.
Graham, Lena Augusta.....	Athens.
Harner, Lela Tennis.....	Bellefontaine.
Henson, Clyde Evan	Clay.
Holmes, Basil Earle.....	Albany.
Ireland, Burdette B.....	Midland.
Kirkendall, Emmett Royal.....	Athens.
McBeth, Charles Elijah.....	Georgetown.
McLaughlin, George Evert.....	Adena.
McVey, John Tipton.....	Eastbank.
Mason, Lenna Beatrice.....	Trimble.
Mayhugh, Esta Mabel.....	Marshfield.
Morrow, Garfield Blaine.....	Claysville, Pa.
Motter, Edwin Cameron.....	Gillespieville.
Murphey, Mabel Weinland.....	Albany.
Nease, Nannie Louisc.....	Albany.
Paine, Howard Sheperd.....	Hamden Junction.
Peoples, Evert Macc.....	Pomeroy.
Phillips, William Richard.....	Athens.
Plum, Horace Walden.....	Tarlton.
Russell, Kyle Denton.....	Albany.
Scott, George Campbell.....	Xenia.
Scott, Nelle Rutledge.....	Athens.
Segal, Rose Mary.....	Chillicothe.
Shaver, James Almah.....	Eastbank.
Shaw, Fred	Rushsylvania.
Shumaker, Clyde Warner.....	Seville.
Siegrist, Albert Leroy.....	Will's Creek.
Tinker, Frederick Huntington.....	Athens.
Welch, Philip Johnson.....	Athens.

Wells, Bruce	Nelsonville.
Wells, Ruth T.....	Racine.
White, Homer	Sugar Grove.
Williams, Wilbur Leo.....	Athens.
Wolfe, Arthur Almer.....	Athens.
Woodgerd, Emma Jane.....	Athens.
Zang, Jacob Milton.....	Newport, Pa.

COLLEGE OF MUSIC

Anthony, Allen Dwight.....	Union Furnace.
Birge, Mary Bessie.....	Chauncey.
Blanchard, Jennie Marguerite.....	Columbus.
Cable, Pearl Golden.....	Nelsonville.
Campbell, Clifford	Athens.
Campbell, Edna	Athens.
Charter, Olive Marie.....	Athens.
Climer, Alice Virginia.....	Vigo.
Climer, Jessie	Vigo.
Crooks, Floyd Stanley.....	Glouster.
Cuckler, Minnie Luella.....	Athens.
Davis, Madora	Marshfield.
Davis, Theora	Marshfield.
Duffee, Janet Agnes.....	Marshfield.
Dunkle, Jennie Marie.....	McArthur.
Fischer, Nell Lenora.....	Zaleski.
Fuller, Herbert Earl.....	Athens.
Fuller, Nellie Mary, Ph. B.....	Athens.
Gabbert, Nan Maria	Point Pleasant, W. Va.
Hall, Edna	Chauncey.
Hall, Elizabeth Alma.....	Logan.
Henry, Virgene	Athens.
Hibbard, Nettie J.....	Athens.
Hooper, Olah Angell.....	Athens.
Hope, Ella Estella	Athens.
Hopkins, Dyantha	Downington.
Hunter, Marie Douglass.....	Athens.
Irwin, Algernon Charles.....	South Perry.
Johnson, Nettie Tabitha.....	Athens.
Jones, Carmi Rodman.....	Athens.
Jones, Albert Johnson.....	Chillicothe.
Jones, William J.....	Nelsonville.
Kipp, Henrietta	Chauncey.
Kreppel, Frank Henry	Nelsonville.
Lamb, George Franklin.....	Lancaster.
Lively, Ora C.....	Byer.

Logan, Clade Landon.....	Athens.
McAdoo, Madge Vickers.....	Mineral.
McBeth, Ira Guy.....	Georgetown.
McVey, John Tipton.....	Eastbank.
Marquis, Carrie Edith.....	Mineral.
Masheter, Lenore Lena	Hebbardsville.
Matheny, Letha May.....	Athens.
Moore, Helen Louise.....	Athens.
Moore, Sylvia	Athens.
Murphey, Mabel Weinland.....	Albany.
Nease, Nannie Louise.....	Point Pleasant, W. Va.
Norton, Willey Higby.....	Sabot Island, Va.
Paine, Fannie Elizabeth.....	Jackson.
Pake, Louise	Marshfield.
Parker, Emmett	Anthony.
Parker, Everett	Anthony.
Payne, William Alexander.....	Rendville.
Pendergrass, Maud	Chauncey.
Pettit, Rebecca Mae.....	Nelsonville.
Pickering, Anna	Athens.
Pickering, Fred Stewart.....	Athens.
Pickett, Florence	Athens.
Pickett, Helen	Athens.
Place, Benoni Austin.....	Qualey.
Roach, Donna M.....	Athens.
Roach, Eva May.....	Athens.
Roach, Juliet	Athens.
Rorick, Mabel Acker.....	Athens.
Saylor, Myrta	Laurelville.
Shaver, Ada	Eastbank.
Shaver, James Almah.....	Eastbank.
Silvus, Catherine	Athens.
Silvus, Jennie	Athens.
Smith, Lenora Fay.....	Stewart.
Spencer, Holmes Augustus.....	Parkersburg, W. Va.
Taylor, Lucy Mae.....	Tappan.
Tullis, Don Delano, Ph. B.....	Bloomingsburg.
Ullom, Jane Bayard.....	Athens.
Waggoner, Chauncey William.....	Sugar Grove.
Walker, Mary Edith	Athens.
Welch, Philip Johnson.....	Athens.
Wickham, Mabel Leona, Ph. B.....	Glen Ullin, N. Dak.
Williams, Anna Pearl.....	Athens.
Wilson, Homer Absolom.....	New Lexington.
Wilson, Mabel Zoe, A. B.....	Athens.
Wood, Mame Longfellow.....	Athens.
Wood, Mary Ellen.....	Athens.
Woodworth, Lena	Athens.
Zang, Jacob Milton.....	Newport, Pa.
Zenner, Roe	Athens.

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